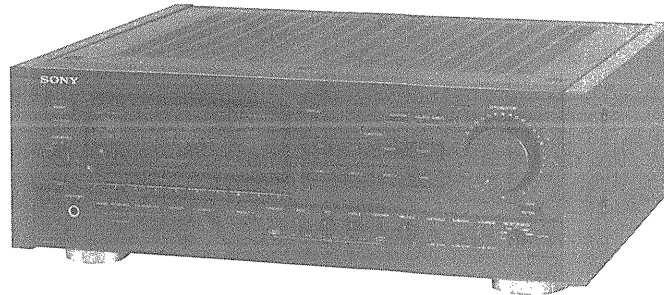


STR-GX80ES/GX90ES

SERVICE MANUAL

*US Model
Netherlands Model*
STR-GX80ES

*US Model
Canadian Model*
STR-GX90ES



This photo is STR-GX90ES

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 8 ohm load, both channels driven, from 20 – 20,000 Hz, rated 110 watts (STR-GX80ES) or 120 watts (STR-GX90ES) per channel minimum RMS power, with no more than 0.008 % total harmonic distortion from 250 milliwatts to rated output.

With 4 ohm load, both channels driven, from 20-20,000 Hz, rated 110 watts (STR-GX80ES) or 120 watts (STR-GX90ES) per channel minimum RMS power, with no more than 0.015 % total harmonic distortion from 250 milliwatts to rated output.

Other Specifications

Amplifier section

Dynamic power output

STR-GX80ES

145 watts + 145 watts (8 ohms, at 1 kHz IHF)

200 watts + 200 watts (4 ohms, at 1 kHz IHF)

310 watts + 310 watts (2 ohms, at 1 kHz IHF)

STR-GX90ES

160 watts + 160 watts (8 ohms, at 1 kHz IHF)

220 watts + 220 watts (4 ohms, at 1 kHz IHF)

350 watts + 350 watts (2 ohms, at 1 kHz IHF)

Harmonic distortion

Less than 0.008 % at rated output

Frequency response

PHONO: RIAA equalization curve ± 0.3 dB

CD, DAT

TAPE

VIDEO 1, 2, 3 (AUDIO)

ADAPTOR

20 Hz – 20 kHz ± 0.5 dB

Damping factor 60 (8 ohms, 1 kHz)

— Continued on next page —

FM STEREO/FM-AM RECEIVER
SONY®

Inputs

		Sensitivity	Impedance	S/N (weighting network, input level)
PHONO	MM	2.5 mV	50 kilohms	90 dB 80 dB* (A, 5 mV)
	MC (STR-GX90ES only)	0.17 mV	100 ohms	73 dB 84 dB (A, 0.5 mV)
CD, VIDEO (1), 2, TAPE, DAT, TAPE MONITOR		150 mV	50 kilohms	98 dB 85 dB* (A, 150 mV)
POWER IN		1.1 V	50 kilohms	120 dB

* '78 IHF

Outputs

VIDEO (1) AUDIO OUT,
REC OUT:
Voltage 150 mV
Impedance 1 kilohm
PRE OUT: 1.1 V
SPEAKER A, B:
Accepts speakers of 4 – 16 ohms.
HEADPHONES:
Accepts low and high impedance headphones.

Video inputs VIDEO 1, 2, 3: 1 Vp-p, 75 ohms
Video outputs VIDEO 1, 2, MONITOR: 1 Vp-p, 75 ohms
Tone controls

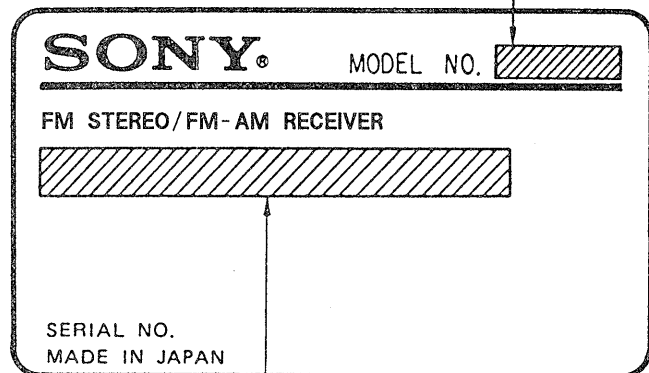
	Response	Turnover frequency
BASS	± 10 dB at 100 Hz	400 Hz
	± 7.5 dB at 100 Hz	200 Hz (STR-GX90ES only)
MID	± 6 dB at 1 kHz	—
TREBLE	± 10 dB at 10 kHz	3 kHz
	± 6 dB at 10 kHz	6 kHz (STR-GX90ES only)

Muting — 20 dB

MODEL IDENTIFICATION

— Specification Label —

US, Netherlands: STR-GX80ES
US, Canadian: STR-GX90ES



STR-GX80ES

US Model: AC :120V~60Hz

Netherlands Model: AC :220V~50Hz

STR-GX90ES

US Model: AC :120V~60Hz

Canadian Model: AC :120V~60Hz

FM/AM tuner section

	FM tuner section	AM tuner section
Tuning	87.5 — 108 MHz	530 — 1,710 kHz (with the AM tuning interval set at 10 kHz) 531 — 1,710 kHz (with the AM tuning interval set at 9 kHz)
Antenna	75 ohms, unbalanced 300 ohms, balanced (STR-GX80ES only)	External antenna terminal, loop antenna
Intermediate frequency	10.7 MHz	450 kHz
Sensitivity at 50 dB quieting	16.8 dBf, 3.8 μ V (mono) 37.9 dBf, 42.3 μ V (stereo)	—
Usable sensitivity	11.2 dBf, 2 μ V (IHF)	Loop antenna: 50 dB/m (at 1,000 kHz) External antenna: 100 μ V (at 1,000 kHz)
Signal-to-noise ratio	83 dB (mono) 78 dB (stereo)	54 dB (at 50 mV/m)
Harmonic distortion	0.05 % (mono), 0.07 % (stereo) at 1 kHz	0.3 % (at 50 mV/m, 400 Hz)
Selectivity	85 dB at 400 kHz	30 dB at 10 kHz
Separation	55 dB at 1 kHz	
Frequency response	15 Hz — 15 kHz $\pm$ 0.5 dB	

General System

Tuner section: PLL quartz-locked digital synthesizer system
Preamplifier section: low-noise NF type equalizer amp
Power amplifier section: pure-complementary SEPP

Power requirements

120 V AC, 60 Hz

Power consumption

	USA model	Canadian model
STR-GX80ES	275 watts	672 VA
STR-GX90ES	295 watts	

AC outlets Dimensions

Two switched (total 100 watts)
STR-GX80ES
Approx. 430 × 160 × 436 mm (w/h/d)
(17 × 6³/₈ × 17¹/₄ inches)
STR-GX90ES
Approx. 470 × 160 × 436 mm (w/h/d)
(18⁵/₈ × 6³/₈ × 17¹/₄ inches)
including projecting parts and controls

Weight

STR-GX80ES
Approx. 13.5 kg (29 lb 13 oz) net
STR-GX90ES
Approx. 14.5 kg (32 lb) net

Accessories supplied

FM ribbon antenna (1)
AM loop antenna (1)
Remote Commander RM-P303 (1)
Sony batteries SUM-3(NS)
(for the remote commander) (2)

Design and specifications subject to change without notice.

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SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

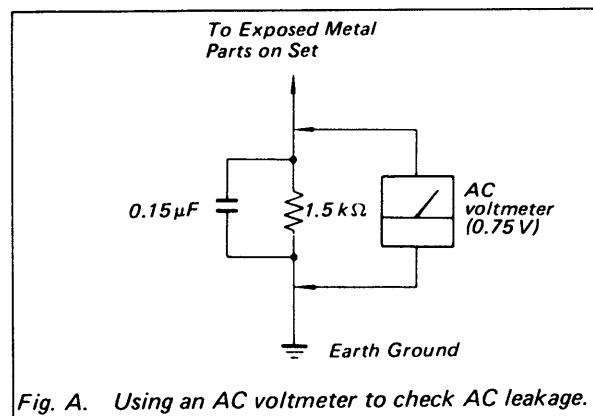
Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

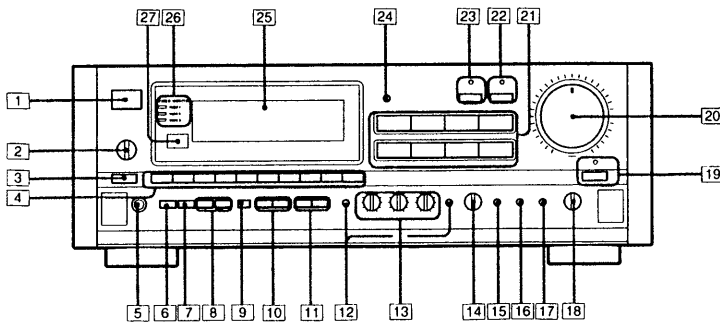
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)



SECTION 1

GENERAL

Parts Identification



- 1 POWER switch
- 2 SPEAKERS selector
- 3 SHIFT (memory page selector) button
- 4 Numeric buttons
- 5 HEADPHONES jack
- 6 FM MODE button
- 7 FM TUNE MODE AUTO/MAN (automatic/manual) button
- 8 FM/AM BAND buttons
- 9 MEMORY button
- 10 TUNING + / - buttons
- 11 PRESET tuning + / - buttons
- 12 TURNOVER frequency selector (STR-GX90ES only)
- 13 BASS, MID (mid-range), and TREBLE TONE controls
- 14 BALANCE control
- 15 CARTRIDGE selector (STR-GX90ES only)
- 16 SUBSONIC filter switch (STR-GX90ES only)
- 17 LOUDNESS switch
- 18 REC OUT SELECTOR (Recording output selector)
- 19 MUTING switch and indicator
- 20 ATTENUATOR knob and indicator
- 21 FUNCTION selectors
- 22 SOURCE DIRECT switch and indicator
- 23 ADAPTOR switch and indicator
- 24 DISPLAY button
This turns the display on or off.
- 25 Display window
- 26 VIDEO MONITOR indicators
- 27 Remote control sensor

Changing the AM tuning interval

The AM tuning interval is preset to 10 kHz. To use the receiver where the frequency allocation system is based on a 9 kHz interval, make the following adjustments.

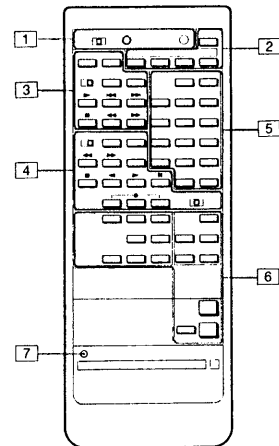
- 1 Turn on the power and tune in any AM station.
- 2 Turn off the power.
- 3 Press POWER while pressing the " + " TUNING button.

To reset the AM tuning interval, repeat the above steps.

Caution

When the interval is changed, all preset stations which you have memorized will be erased. After changing the interval, be sure to preset the stations again.

Remote Commander RM-P303



1 Program control section

Mode selector and indicator (page 24)

SONY STD: To control Sony equipment.

USER STD: To control equipment whose remote control functions are stored.

LEARN: To store functions of other remote commanders emitting infrared rays.

PROGRAM CLEAR button: Clears the stored functions.

2 Power control section

SYSTEM OFF button: Turns off the power of the whole system: LDP, VTR, TV and AUDIO.

LDP/VTR/TV/AUDIO POWER buttons: Control the power of each unit. (The VTR POWER button can be used only when the TAPE/VTR selector is set to VTR.)

3 CDP/LDP control section

CDP/LDP selector: Selects CDP (CD player) or LDP (laser disc player) to be played. The combined CD/LD player can be controlled with this selector set to LDP.

CONTINUE: Continuous play (only for CD player)

SHUFFLE: Shuffle play (only for CD player)

PGM: Program play (only for CD player)

D (disc) SKIP: Disc skip (for a CD player equipped with a multi-disc changer)

▶: Starts play.

◀◀/▶▶: Locates a desired selection

■: Stops play.

◀◀/▶▶: Manual search (these buttons control only laser disc player.)

4 TAPE/DAT/VTR control section

TAPE/VTR selector: Selects TAPE (tape deck) or VTR(VCR) to be controlled.

ANT TV/VTR button: Selects the output signal from the antenna terminal on the VCR, either a TV signal or VCR programs.

CH + / - buttons: Select channel on the VCR.

◀◀/▶▶: fast winding

■: Stop

◀/▶: Play

■: Pause

REV/REC/FWD buttons

For reverse recording, press REV and REC together.

For forward recording, press FWD and REC together.

DECK/VTR selector

DECK A, B, and DAT: Selects A, B, or DAT.

VTR 1, 2, and 3: Selects VCR type.

1: Betamax VCRs

2: 8mm VCRs

3: VHS VCRs

5 TV control section

VOL + / - buttons: Control the TV volume.

CH + / - buttons: Select a preset channel.

Program number (1 to 0) and ENTER buttons: Select the channel.

6 Receiver control section

FUNCTION selectors: Select an input source of the receiver.

SHIFT button: Selects a memory page.

TUNER PRESET station select buttons:

Select a preset station.

PHONO START button: Starts record playing.

PHONO STOP button: Stops record playing.

MUTING button: Mutes the sound.

MASTER VOL + / - buttons: Control the receiver volume.

7 RESET button

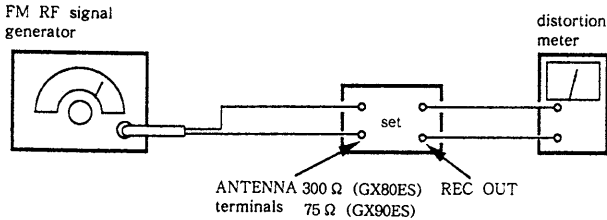
Reset the commander to the initial state.

SECTION 2

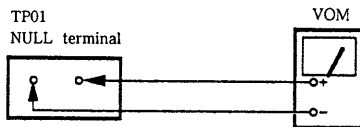
ELECTRICAL ADJUSTMENTS

FM DISCRIMINATOR ALIGNMENT (NULL and MONO Distortion)

Setting :



Carrier frequency : 98MHz
Modulation : 400Hz, 75kHz deviation
(100%)
Output level : 1mV (60dB)

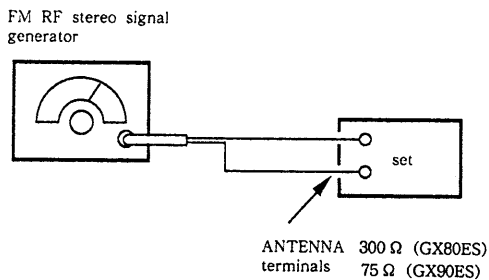


Procedure :

1. Tune the set 98MHz.
2. Adjust the T02 for 0V reading on VOM. NULL
3. Adjust T03 for a minimum reading on the distortion meter.....MONO Distortion.
4. Repeat the primary-side and secondary-side alignments several times.

FM TUNING STOP LEVEL ADJUSTMENT

Setting :



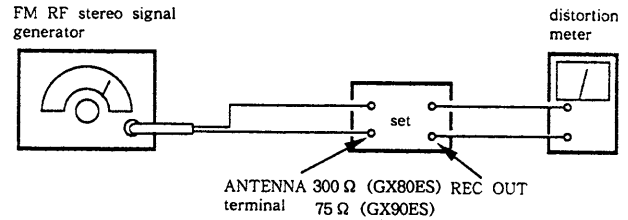
Carrier frequency : 98MHz (25dB)
Output level : 17.8 μV
Modulation
Audio 400Hz : 33.75kHz deviation (45%)
Sub channel 38kHz : 33.75kHz deviation (45%)
Pilot signal 19kHz : 7.5kHz deviation (10%)

Procedure :

1. Tune the set to 98MHz by pressing the TUNING buttons.
2. Adjust RT03 so that the STEREO LED goes on.

FM METER ADJUSTMENT

Setting :



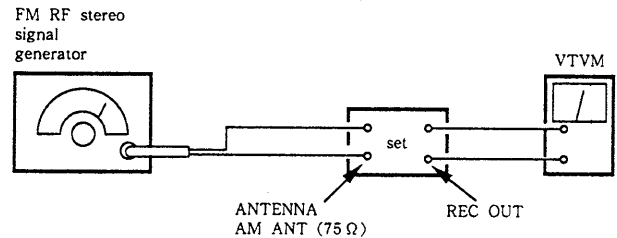
Carrier frequency : 98MHz
Output level : 316 μV (50dB μ)
Modulation
Audio 400Hz : 33.75kHz deviation (45%)
Sub channel 38kHz : 33.75kHz deviation (45%)
Pilot signal 19kHz : 7.5kHz deviation (19%)

Procedure :

Adjust the RT04 so that the 10 point segments of the signal meter goes on.

FM Stereo Separation Adjustment

Setting :



Carrier frequency : 98MHz
Output level : 1mV (60dB)
Modulation :
Audio 1kHz : 33.7kHz deviation (45%)
Sub channel 38kHz : 33.75kHz deviation (45%)
Pilot signal 18kHz : 7.5kHz deviation (10%)
Mode : stereo

Procedure :

Tune the set to 98MHz

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	(A)
R-CH	L-CH	(B) Adjust RT05 for minimum reading.
R-CH	R-CH	(C)
L-CH	R-CH	(D) Adjust RT05 for minimum reading.

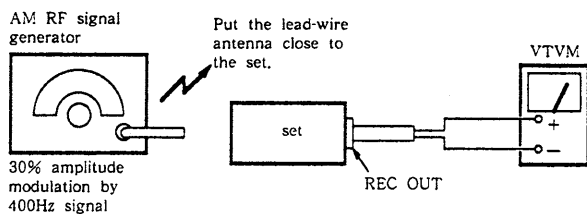
L-CH Stereo separation : (A) - (B)

R-CH Stereo separation : (C) - (D)

The separations of both channels should be equal.

AM SECTION

Setting :



AM IF ADJUSTMENT

Procedure :

1. Tune the set to the SG signal.
2. Adjust for a maximum reading on VTVM.

	SG and set frequency	Adjustment parts	Reading on VTVM
1.	1400kHz	T01	Maximum

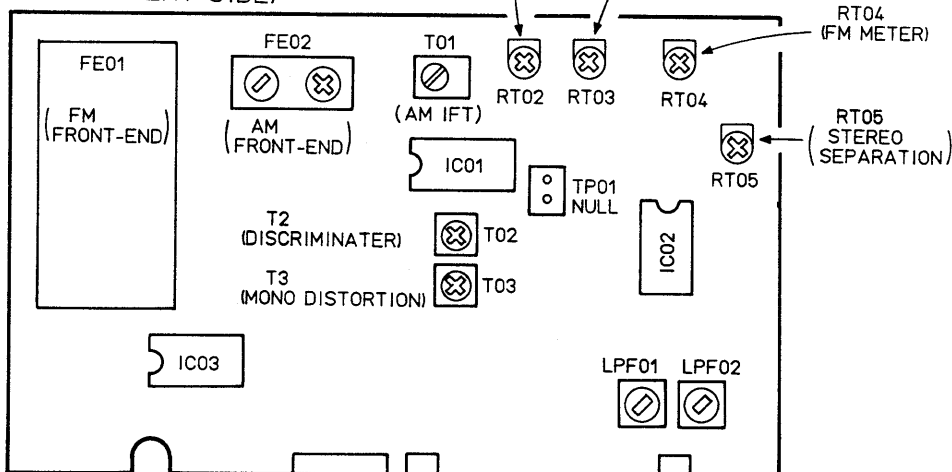
AM METER ADJUSTMENT

Procedure :

1. Tune the set 999kHz (70dB).
2. Adjust the RT02 so that the 9 point segment of the signal meter goes on.

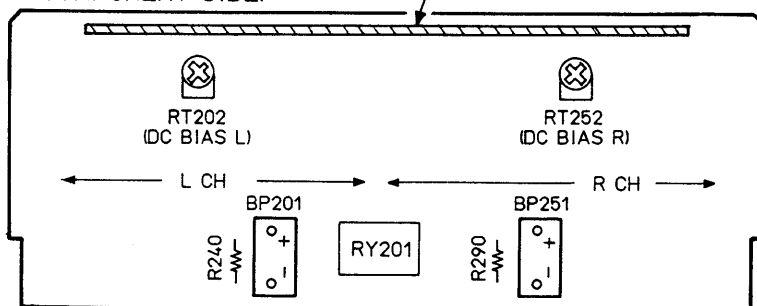
【 TUNER BOARD 】

(COMPONENT SIDE)



【 MAIN BOARD 】

(COMPONENT SIDE)



AUDIO SECTION

Note :

1. DC BIAS and DC BALANCE adjustments should be made several minutes after the POWER switch is turned on (POWER ON).
2. Make DC BIAS adjustment first.
3. Repeat DC BIAS and DC BALANCE adjustments two or three times.
4. After replacing the power transistors, DC BIAS and DC BALANCE adjustments should be made.

DC Bias Adjustment (with no signal input)

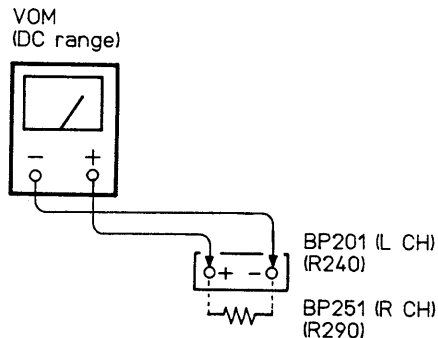
Procedure :

— L-CH —

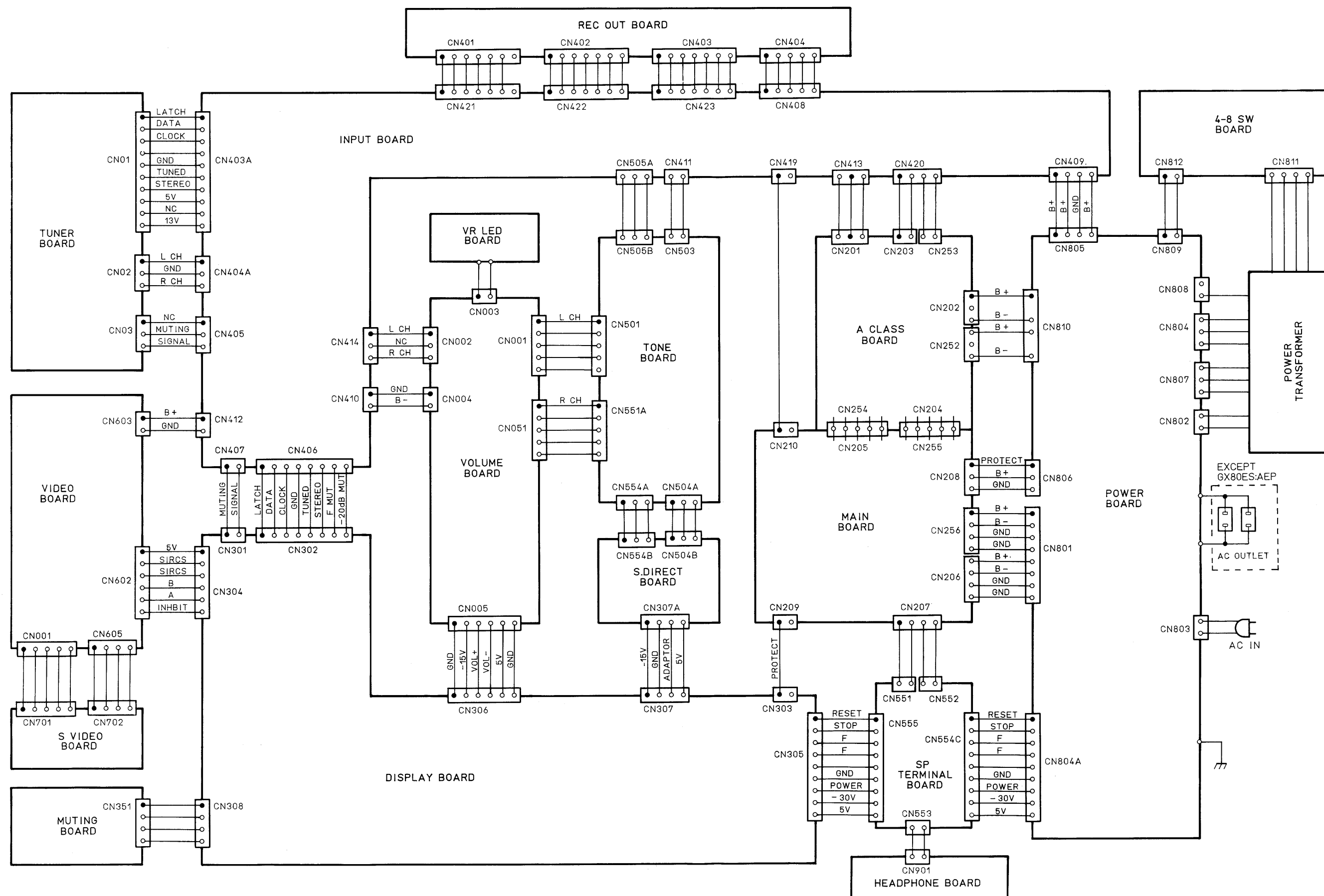
Adjust RT202 for 5mV readings.

— R-CH —

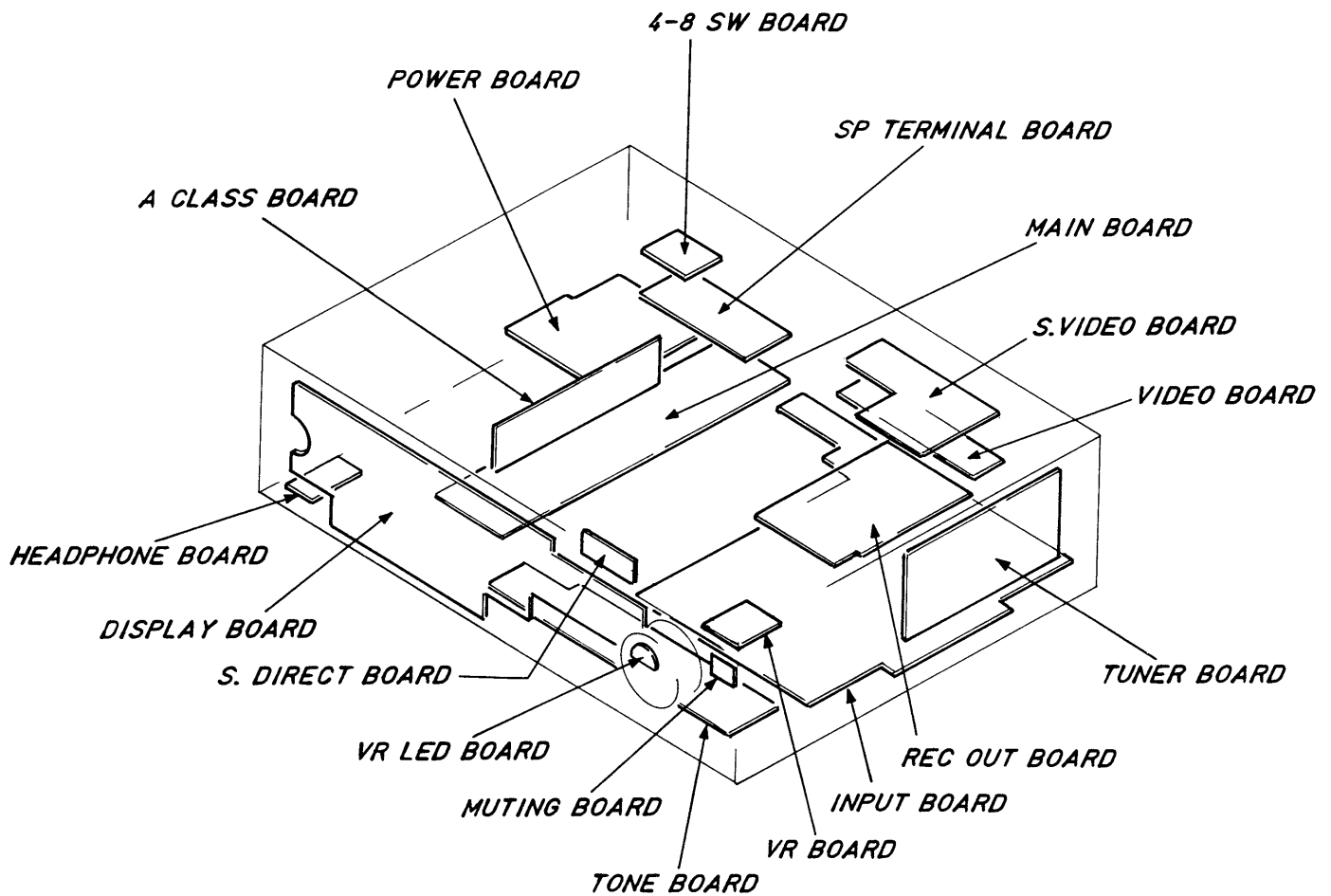
Adjust RT252 for 5mV readings.



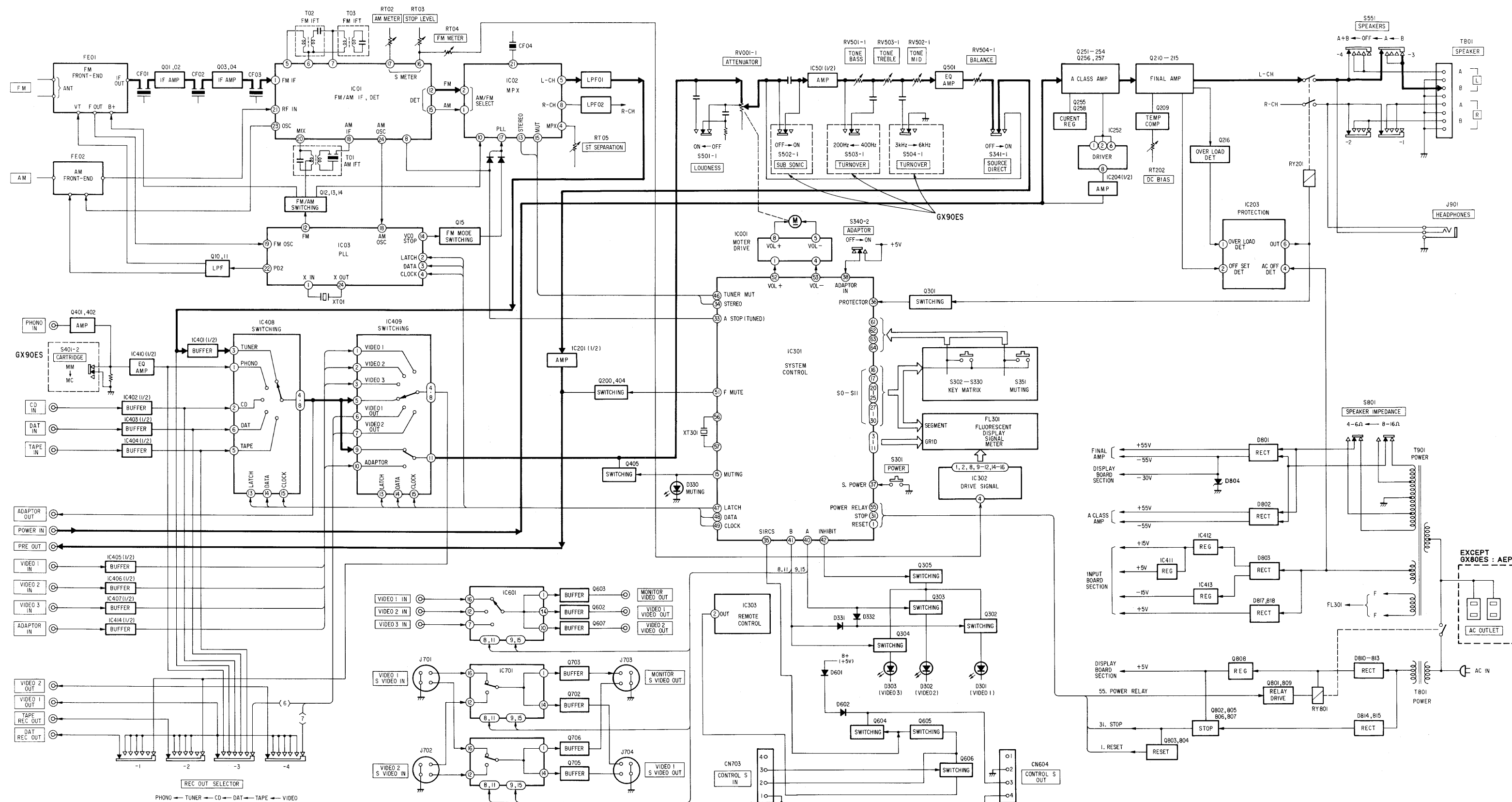
SECTION 3 DIAGRAMS



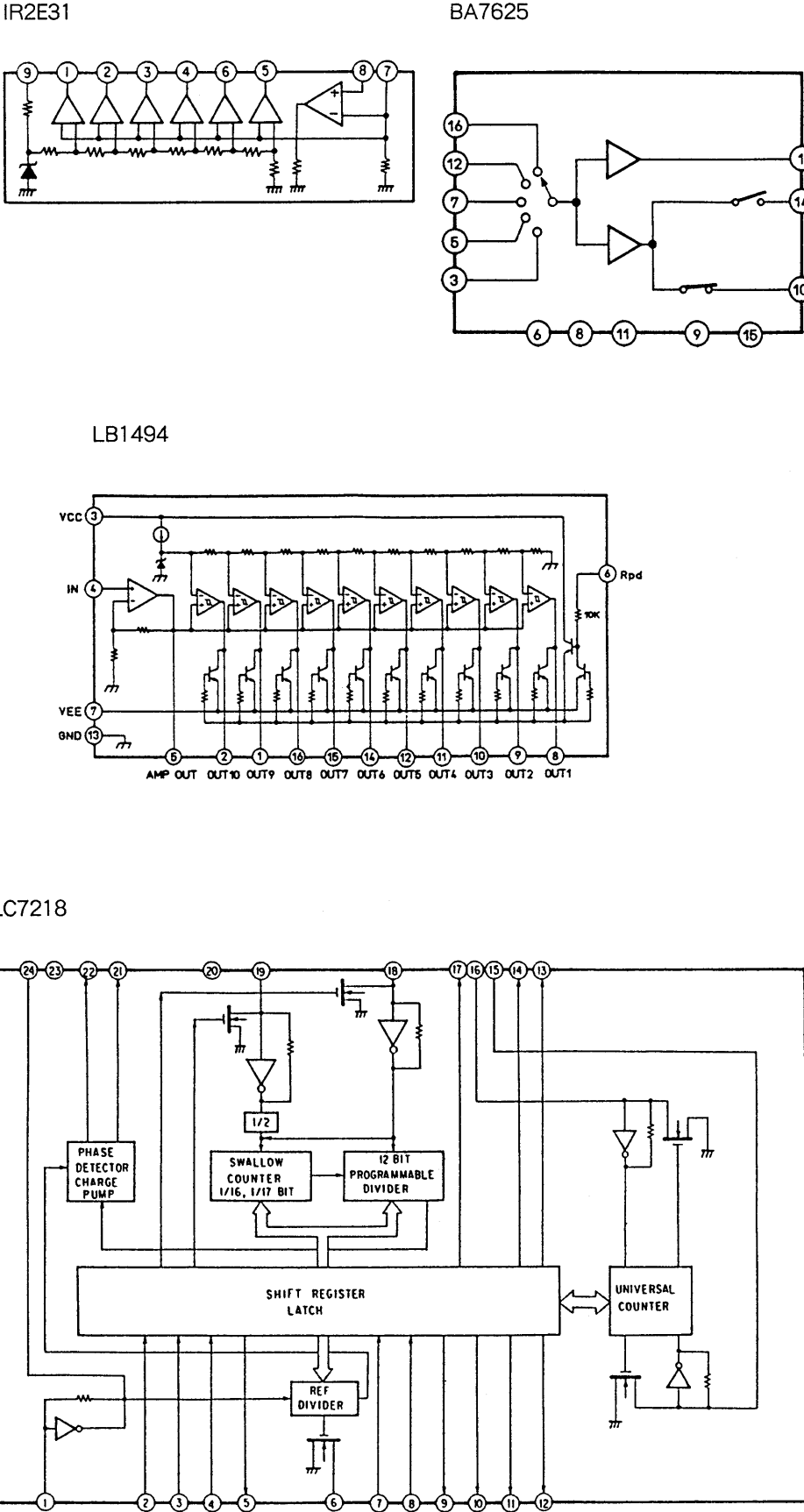
3-2. Circuit Boards Location



3-3. Block Diagram

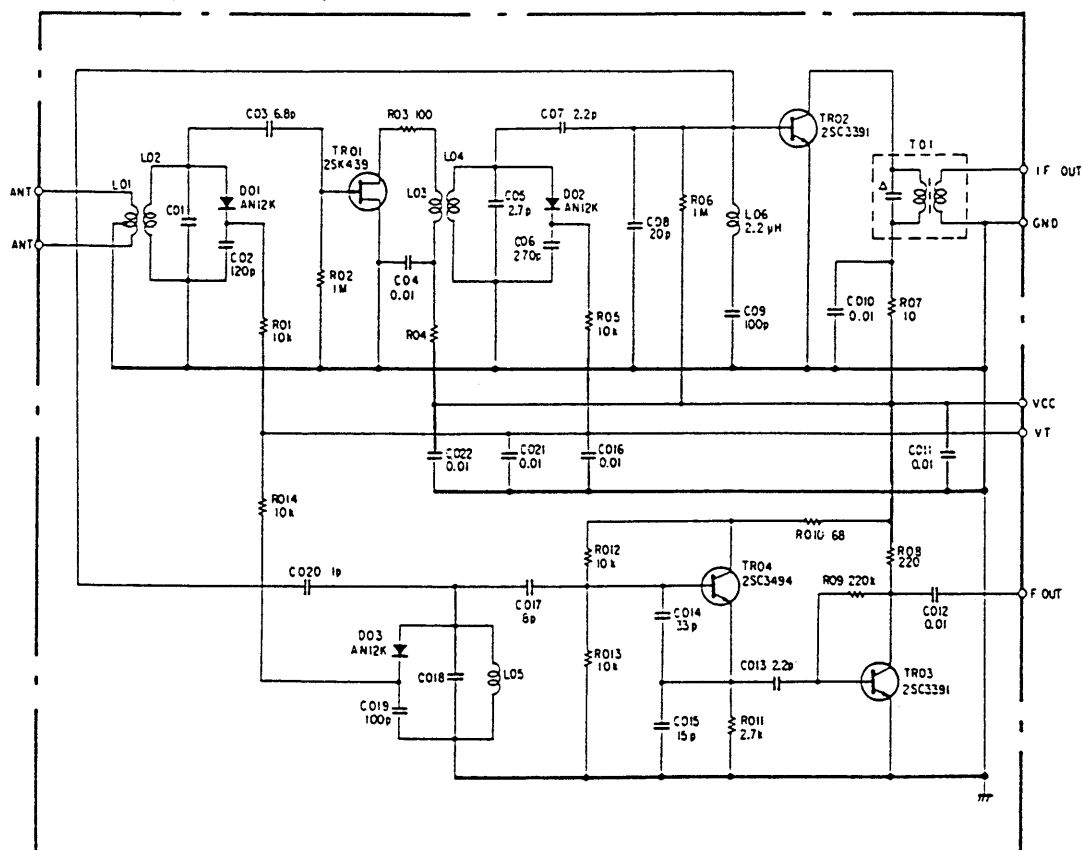


3-4. IC Block Diagrams

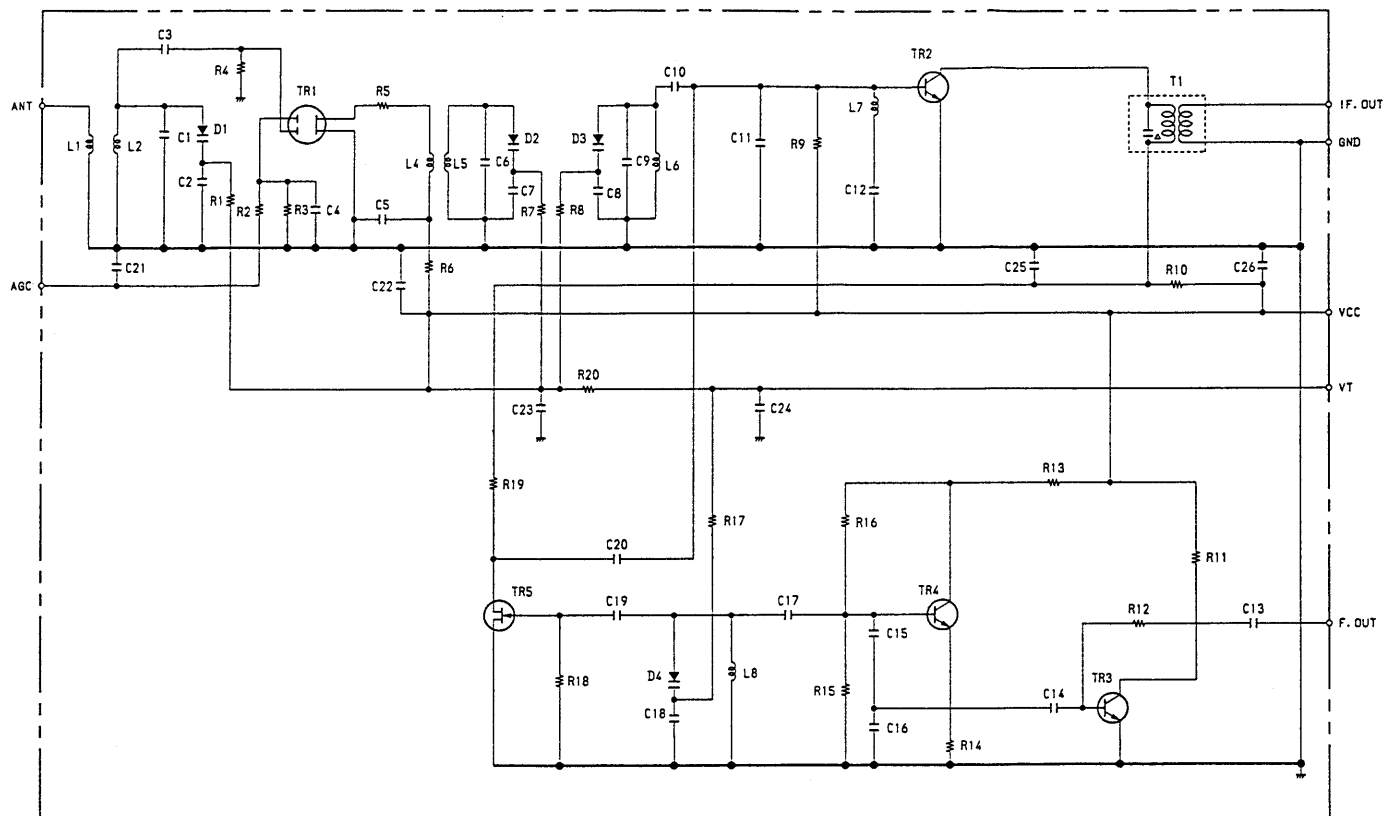


3-5. Front-End Schematic Diagram

FM FRONT-END FE01 (GX80ES : US)

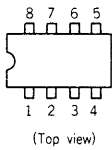


FM FRONT-END FE01 (GX90ES, GX80ES : Netherlands)

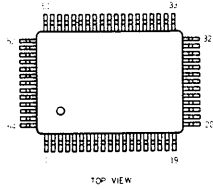


3-6. Semiconductor Lead Layouts

**LB1639
RC4560D**



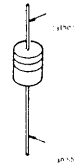
μ PD75206G-577-1B



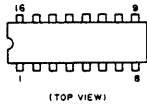
**2SA1383-QP
2SC3514-QP
2SD1585-L
2SD2012**



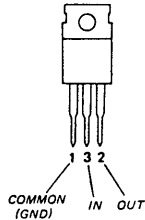
**1SS120
HZC6C3L
HZS6C1L
UZL-7M1
UZL-12M1**



**BA7625
LB1494**



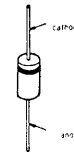
M5F79M15L



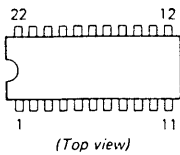
**2SC2603-EF
2SC2669-Y
DTA124ES
DTC114ES
DTC143TS
DTC144ES**



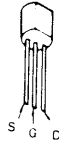
**10E2
EQA02-28A
UZ4ALL
UZ-5.1BS**



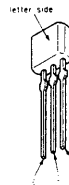
LA3401



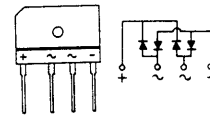
2SK30AGR33-GR3



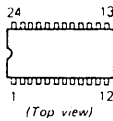
**2SA1175-HFE
2SC2785-HFE
BN1L3Z-P**



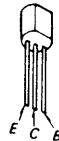
**RBA-402
RBV-602-01**



**LA1266
LC7218**



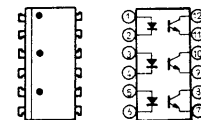
**2SB1116A-K
2SC1841-PAFAEA
2SC1845-EA
2SC3112-B
2SC3622A-K
2SC3622A-LK**



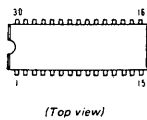
**2SA1684-LK
2SC4431-LK**



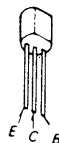
PC837



LC7822



2SA988-F



μ PC1237HA



**2SA1360-
2SC3423-**



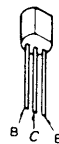
SEL2510C-D



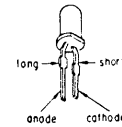
**IR2E31A
μ PC4570HA-1**



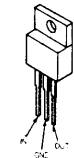
2SA950-



SEL2810A-C



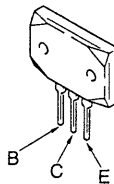
**M5F78M05L
M5F78M15L**



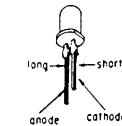
2SK389-GR



**2SA1216-M-Y
2SC2922-M-Y**



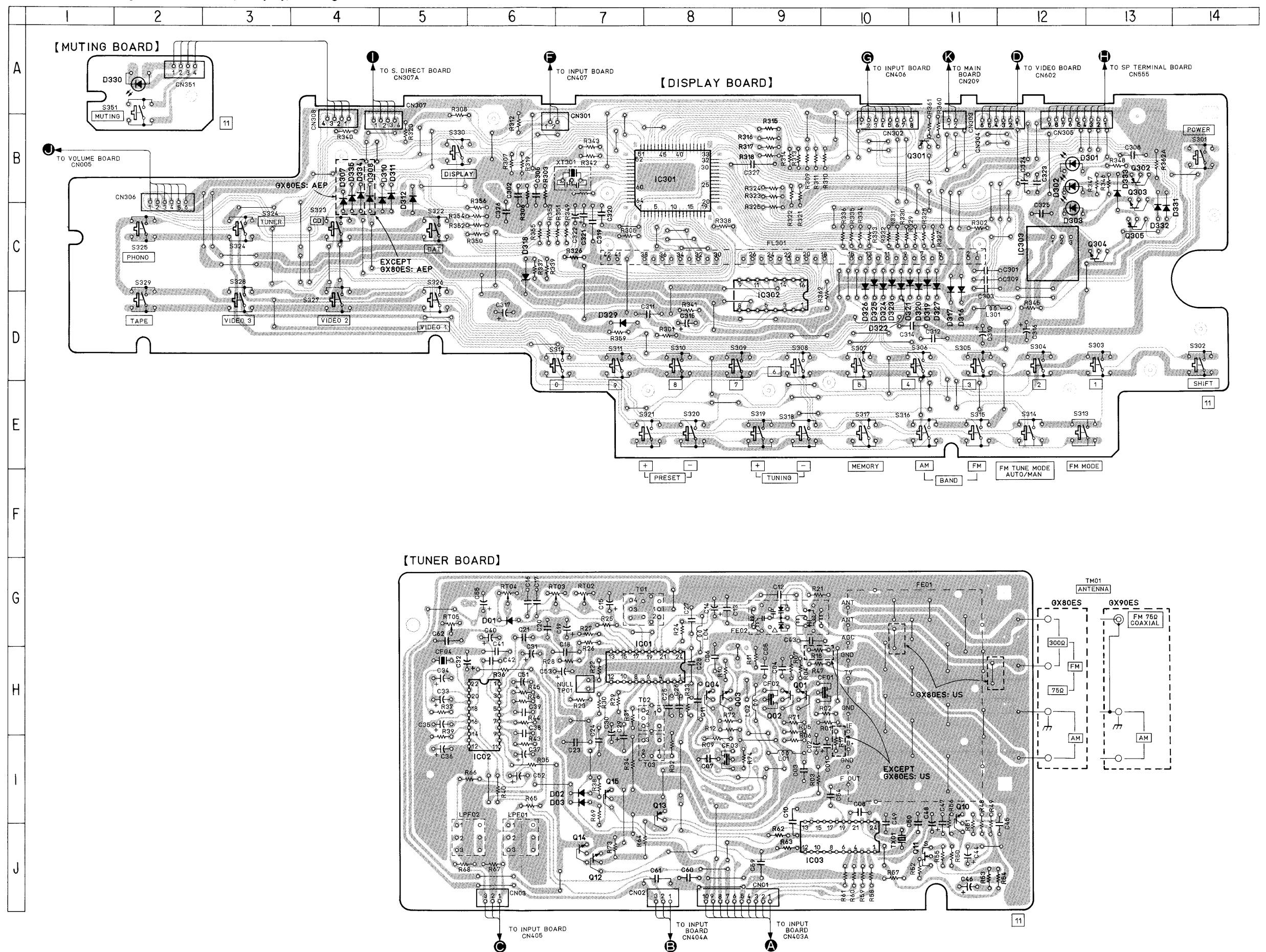
SEL-1810A



3-7. Printed Wiring Boards - Tuner/Display/Muting Section -

• Semiconductor Location

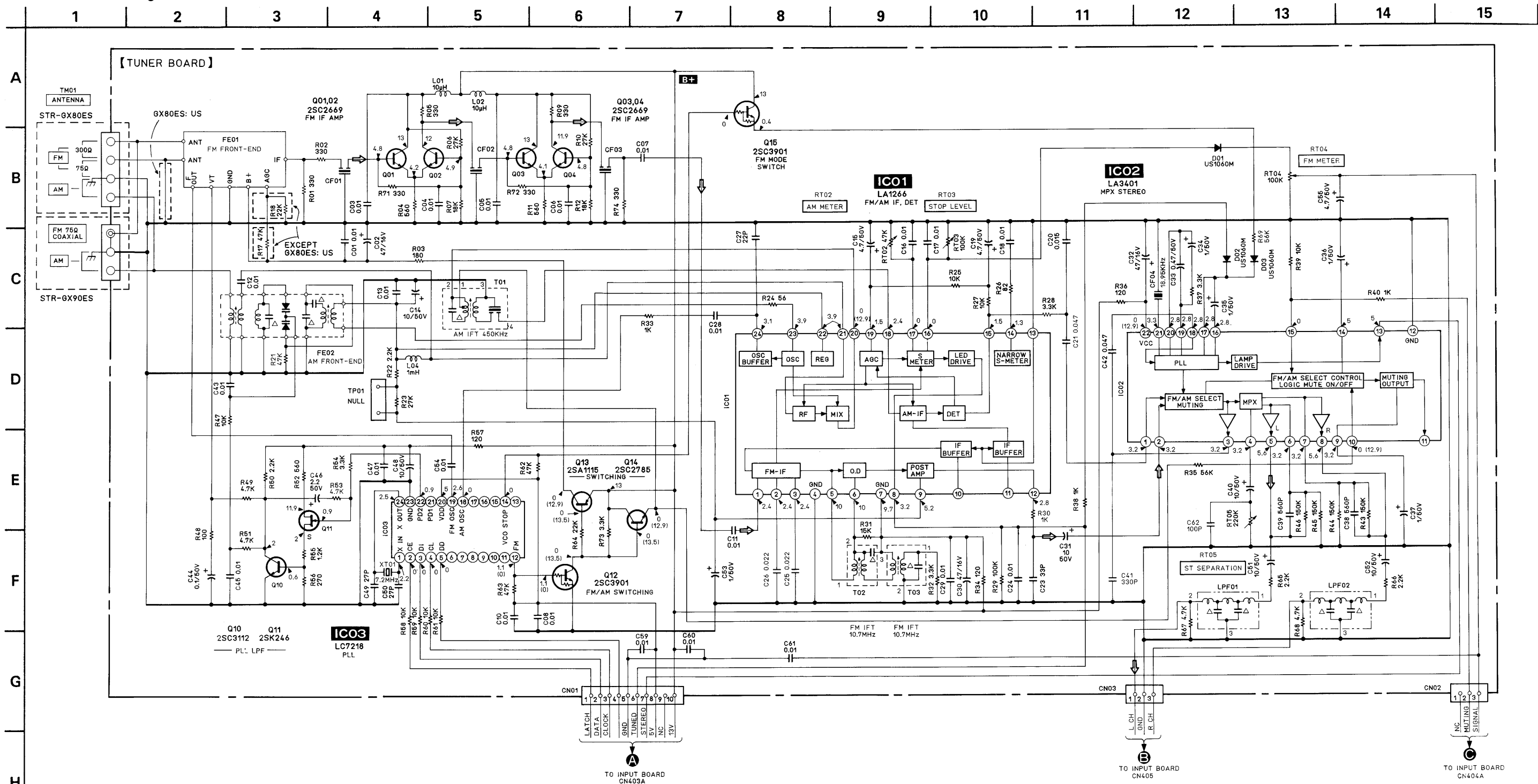
Ref. No.	Location
D001	G-6
D002	I-7
D003	I-7
D301	B-12
D302	B-12
D303	C-12
D307	B-4
D308	B-4
D310	B-5
D311	B-5
D312	B-5
D316	C-11
D317	C-11
D318	C-6
D319	C-11
D320	C-11
D321	C-11
D322	C-10
D323	C-10
D324	C-10
D325	C-10
D326	C-10
D327	C-11
D329	D-7
D330	A-2
D331	C-13
D332	C-13
D333	B-13
D334	B-4
D335	B-4
IC001	H-8
IC002	H-6
IC003	J-10
IC301	B-8
IC302	D-9
IC303	C-12
Q001	H-9
Q002	H-9
Q003	H-8
Q004	H-8
Q010	I-11
Q011	J-11
Q012	J-7
Q013	J-8
Q014	J-7
Q015	I-7
Q301	B-11
Q302	B-13
Q303	C-13
Q304	C-13
Q305	C-13



Note on Mounting Diagram:

- : parts extracted from the component side.
- : parts mounted on the conductor side.

3-8. Schematic Diagram - Tuner Section -



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF: μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\triangle$: internal component.
- $\square$: nonflammable resistor.
- $\square$: fusible resistor.

Note:

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Note:

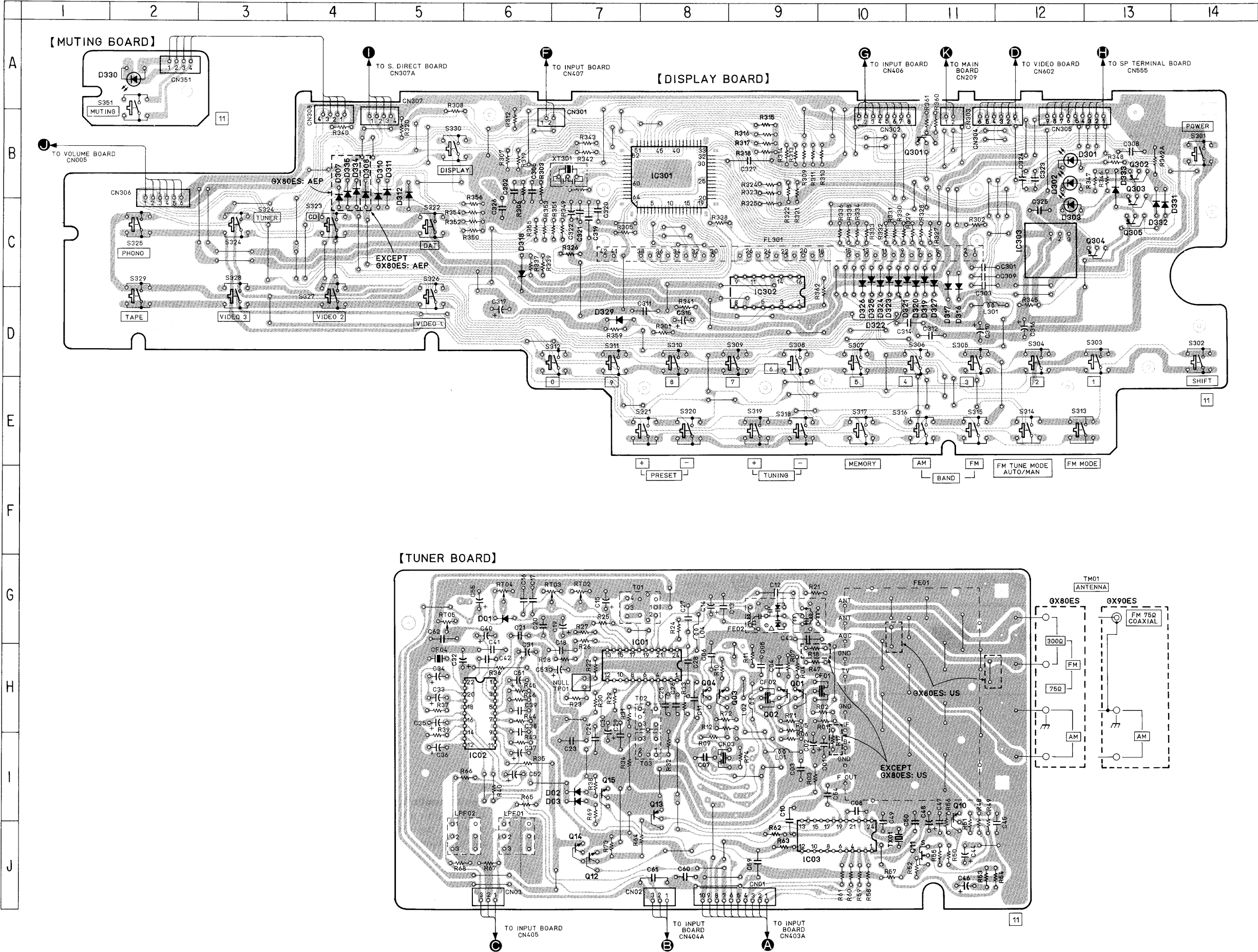
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- **B+** : B+ Line
- **B-** : B- Line
- $\square$: adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark: FM
() : AM
- Voltages are taken with a VOM (Input impedance 10M Ω)
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 $\Rightarrow$: FM

3-9. Printed Wiring Board – Tuner/Display/Muting Section –

• Semiconductor Location

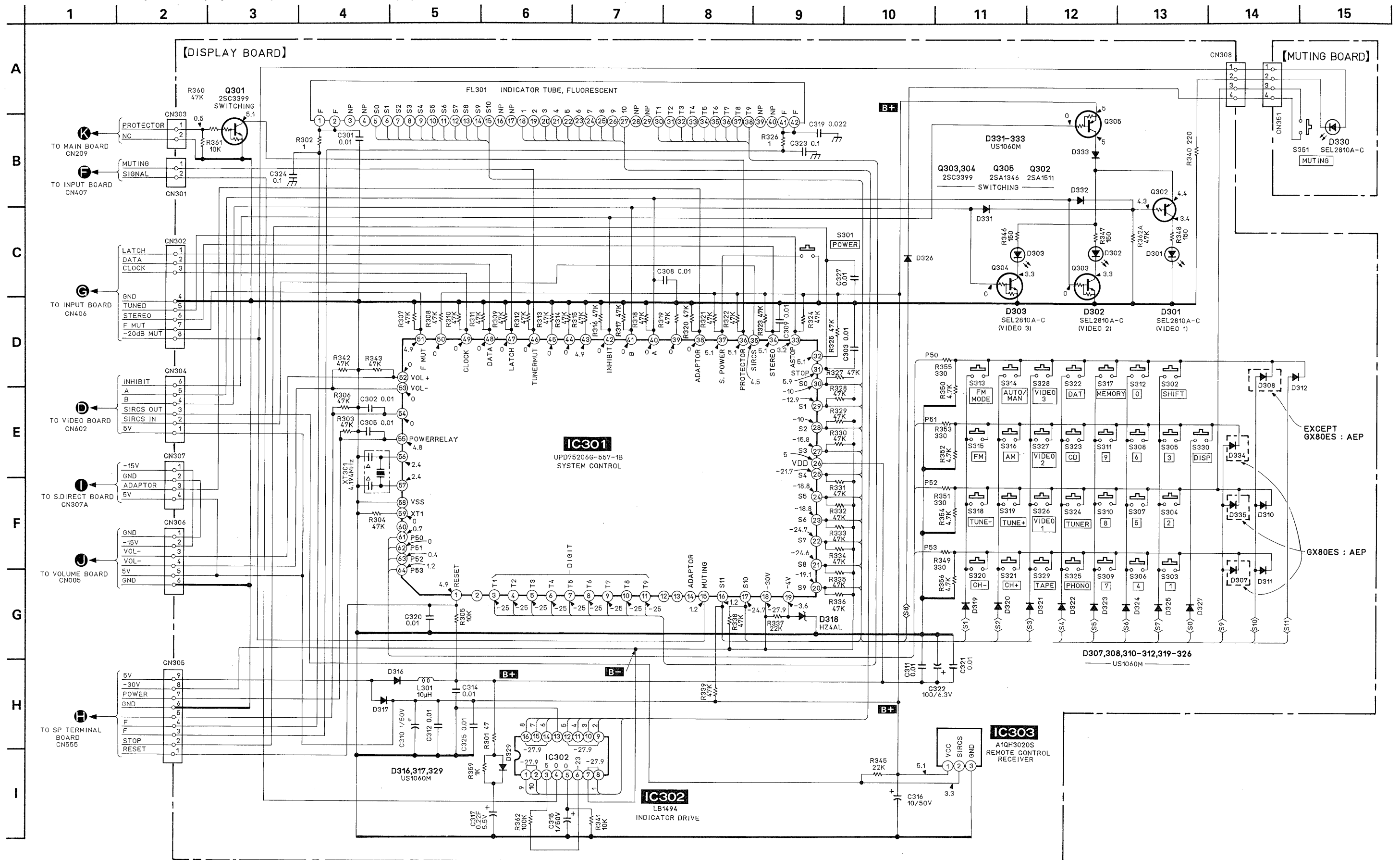
Ref. No.	Location
D001	G-6
D002	I-7
D003	I-7
D301	B-12
D302	B-12
D303	C-12
D307	B-4
D308	B-4
D310	B-5
D311	B-5
D312	B-5
D316	C-11
D317	C-11
D318	C-6
D319	C-11
D320	C-11
D321	C-11
D322	C-10
D323	C-10
D324	C-10
D325	C-10
D326	C-10
D327	C-11
D329	D-7
D330	A-2
D331	C-13
D332	C-13
D333	B-13
D334	B-4
D335	B-4
IC001	H-8
IC002	H-6
IC003	J-10
IC301	B-8
IC302	D-9
IC303	C-12
Q001	H-9
Q002	H-9
Q003	H-8
Q004	H-8
Q010	I-11
Q011	J-11
Q012	J-7
Q013	J-8
Q014	J-7
Q015	I-7
Q301	B-11
Q302	B-13
Q303	C-13
Q304	C-13
Q305	C-13



Note on Mounting Diagram:

- — : parts extracted from the component side.
- ■ : parts mounted on the conductor side.

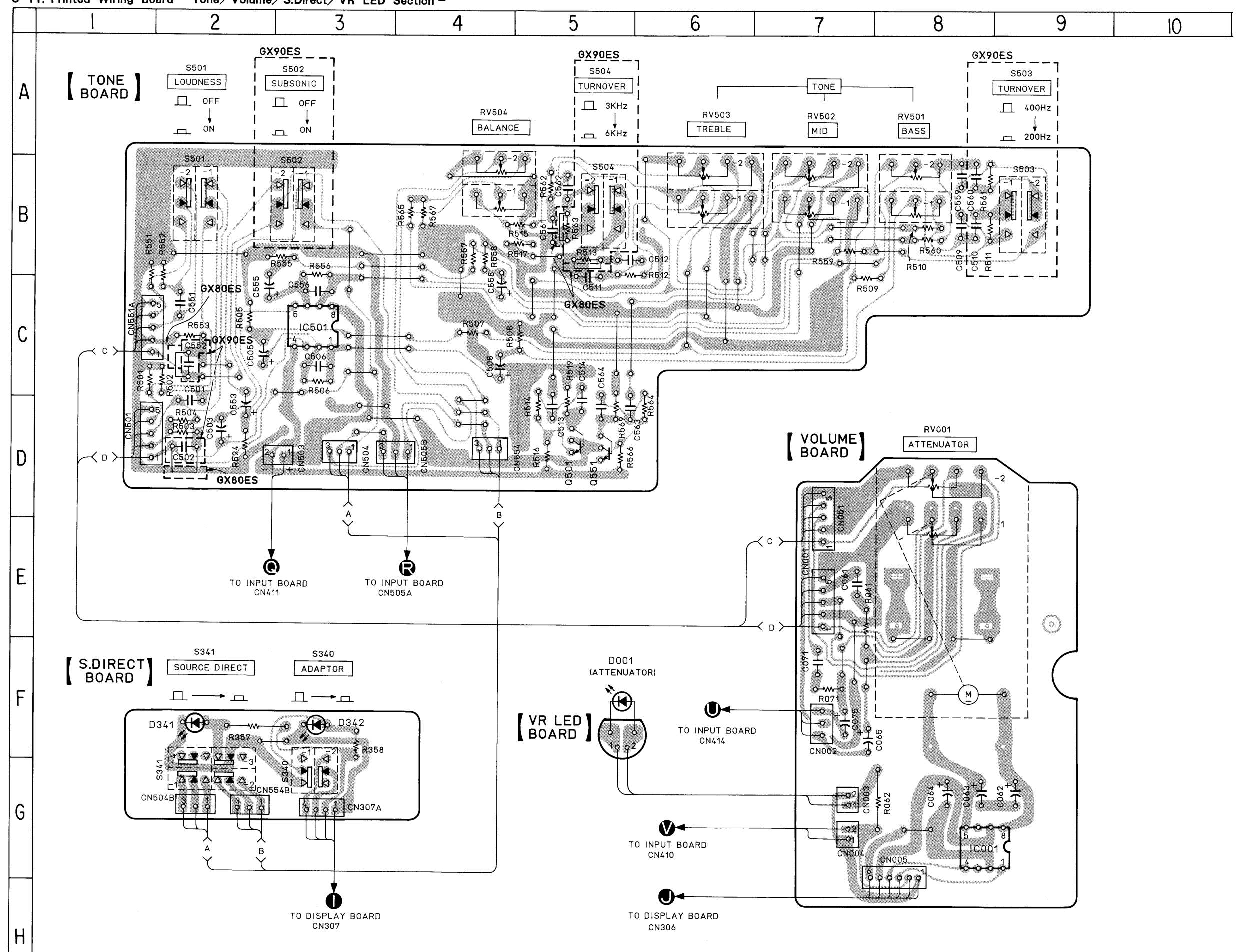
3-10. Schematic Diagram - Display/Muting Section - See page 18 for note.



3-11. Printed Wiring Board – Tone/Volume/S.Direct/VR LED Section –

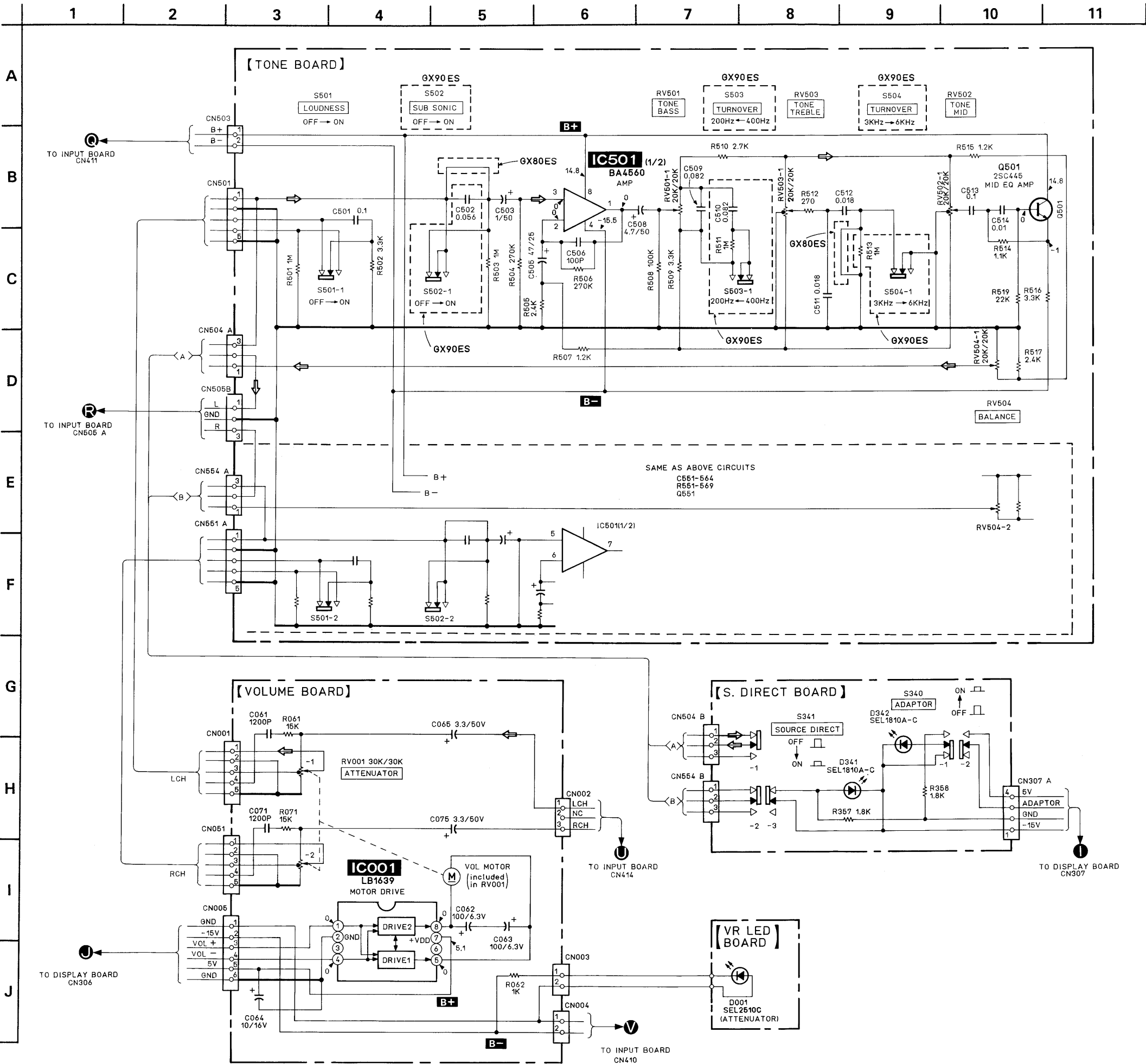
• Semiconductor Location

Ref. No.	Location
D001	F-5
D341	F-2
D342	F-3
IC501	C-3
Q501	D-5
Q551	D-5



Note on Mounting Diagram:

- ○ — : parts extracted from the component side.
- ■ — : parts mounted on the conductor side.



Note on Schematic Diagram:

- All capacitors are in μF unless otherwise noted. pF : μF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- $\triangle$: internal component.
- $\square$: nonflammable resistor.
- $\square$: fusible resistor.

Note:
The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- **B+** : B+ Line
- **B-** : B- Line
- $\square$: adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark: FM
(): AM
- Voltages are taken with a VOM (Input impedance $10\text{M}\Omega$)
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 $\Rightarrow$: FM

The diagram illustrates the internal circuitry of a video board, divided into two main sections: the top section (labeled 'S VIDEO BOARD') and the bottom section (labeled 'VIDEO BOARD').

Top Section (S VIDEO BOARD):

- Connectors:** J702 (VIDEO 2 S VIDEO IN), J704,701 (VIDEO 1 S VIDEO IN), J703 (MONITOR S VIDEO OUT), and CN703 (CONTROL S AUDIO IN).
- Components:** Resistors R701-R715, capacitors C701-C716, and integrated circuits IC701 and IC702.
- Layout:** The components are arranged in a grid-like pattern, with the ICs positioned centrally and the connectors at the edges.

Bottom Section (VIDEO BOARD):

- Connectors:** J604 (CONTROL S AUDIO OUT), J602 (VIDEO 3 VIDEO IN), J601 (VIDEO 2 VIDEO IN), J603 (VIDEO 1 VIDEO IN), and J605 (MONITOR VIDEO OUT).
- Components:** Resistors R601-R617, capacitors C601-C610, and integrated circuits IC601 and IC602.
- Layout:** The components are arranged in a grid-like pattern, with the ICs positioned centrally and the connectors at the edges.

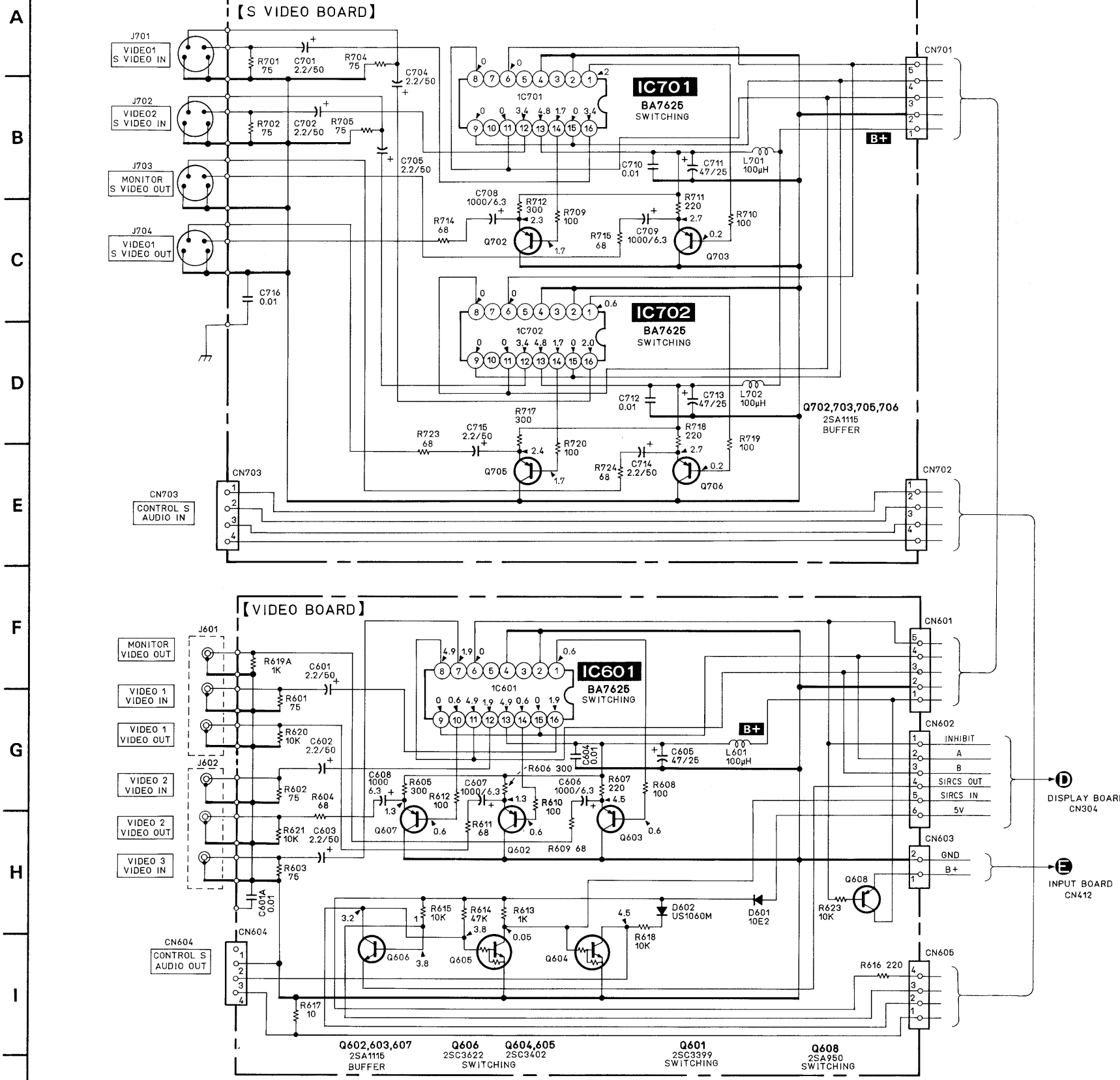
The diagram also shows the physical layout of the components on the board, including the placement of the ICs and the routing of the signal lines.

Ref. No.	Location
D601	G-2
D602	F-2
D603	F-2
IC601	G-4
IC701	D-3
IC702	D-2
Q601	G-2
Q602	F-4
Q603	F-6
Q604	G-2
Q605	G-2
Q606	F-2
Q607	F-3
Q608	G-6
Q702	C-5
Q703	C-6
Q705	B-2
Q706	C-4

- ○ — : parts extracted from the component side.
- ■ : parts mounted on the conductor side.

TO INPUT BOARD
CN412

A horizontal number line with tick marks labeled 1 through 10.



- All capacitors are in μF unless otherwise noted. pF: μpF
50WV or less are not indicated except for electrolytics
and tantalums.

- | | |
|--|--|
| <p>Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.</p> | <p>Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.</p> |
|--|--|

- : B + Line
- : B - Line
- : adjustment for repair.
- Voltage and waveforms are dc with respect to ground under no-signal conditions.
no mark: FM
(): AM
- Voltages are taken with a VOM (Input impedance 10M Ω)
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 : FM



- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $1/4\text{W}$ or less unless otherwise specified.
- Δ : internal component.
-  : nonflammable resistor.
-  : fusible resistor.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

- 34—

POWER BOARD

AC IN

SHASSIS

F801

R809

CN802

CN803

CN809

CN808

CN807

CN801

CN804

CN805

CN806

CN810

CN811

CN812

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CN814

CN815

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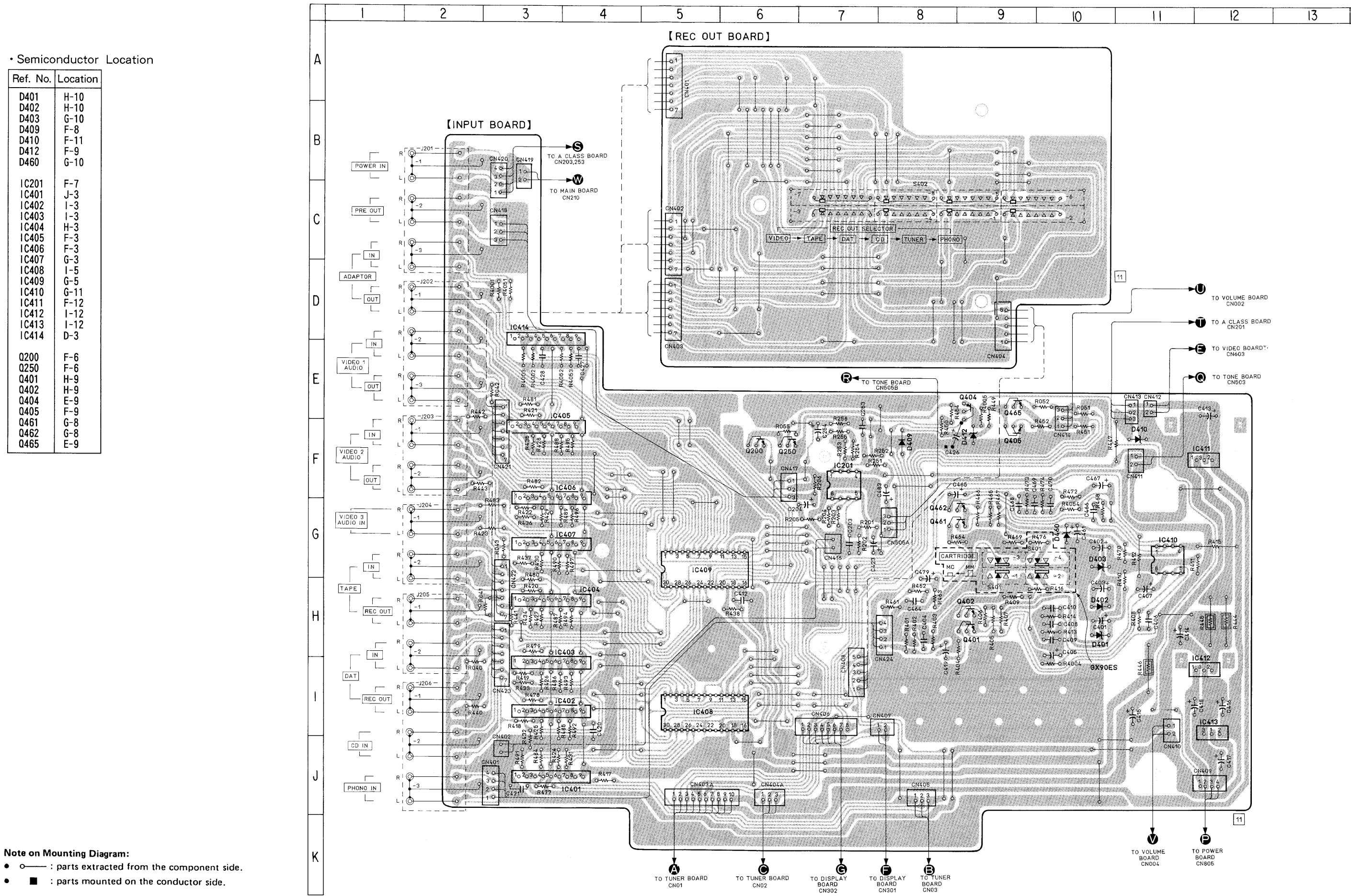
Ref. No.	Location
D801	C-7
D802	B-7
D803	E-4
D804	E-3
D805	C-3
D806	D-2
D807	D-3
D808	C-3
D809	D-3
D810	D-5
D811	D-4
D812	D-4
D813	C-5
D814	C-4
D815	C-5
D816	E-3
D817	E-4
D818	E-4
Q801	D-4
Q802	E-2
Q803	E-2
Q804	D-2
Q805	E-3
Q806	E-3
Q807	C-3
Q808	D-3
Q809	E-3

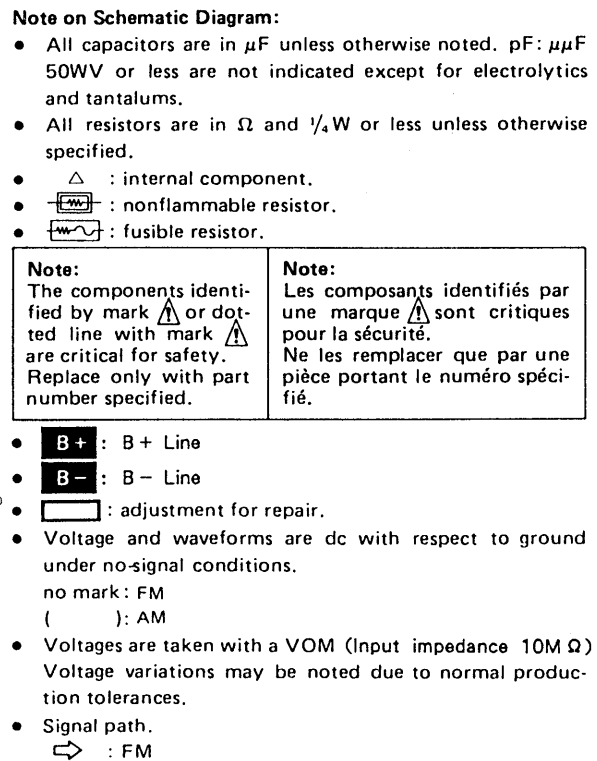
- ○ — : parts extracted from the component side.
- ■ : parts mounted on the conductor side.



• Semiconductor Location

Ref. No.	Location
D401	H-10
D402	H-10
D403	G-10
D409	F-8
D410	F-11
D412	F-9
D460	G-10
IC201	F-7
IC401	J-3
IC402	I-3
IC403	I-3
IC404	H-3
IC405	F-3
IC406	F-3
IC407	G-3
IC408	I-5
IC409	G-5
IC410	G-11
IC411	F-12
IC412	I-12
IC413	I-12
IC414	D-3
Q200	F-6
Q250	F-6
Q401	H-9
Q402	H-9
Q404	E-9
Q405	F-9
Q461	G-8
Q462	G-8
Q465	E-9





SECTION 4

EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked “★” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.

- Color Indication of Appearance Parts
Example:

(RED) ... KNOB, BALANCE (WHITE)

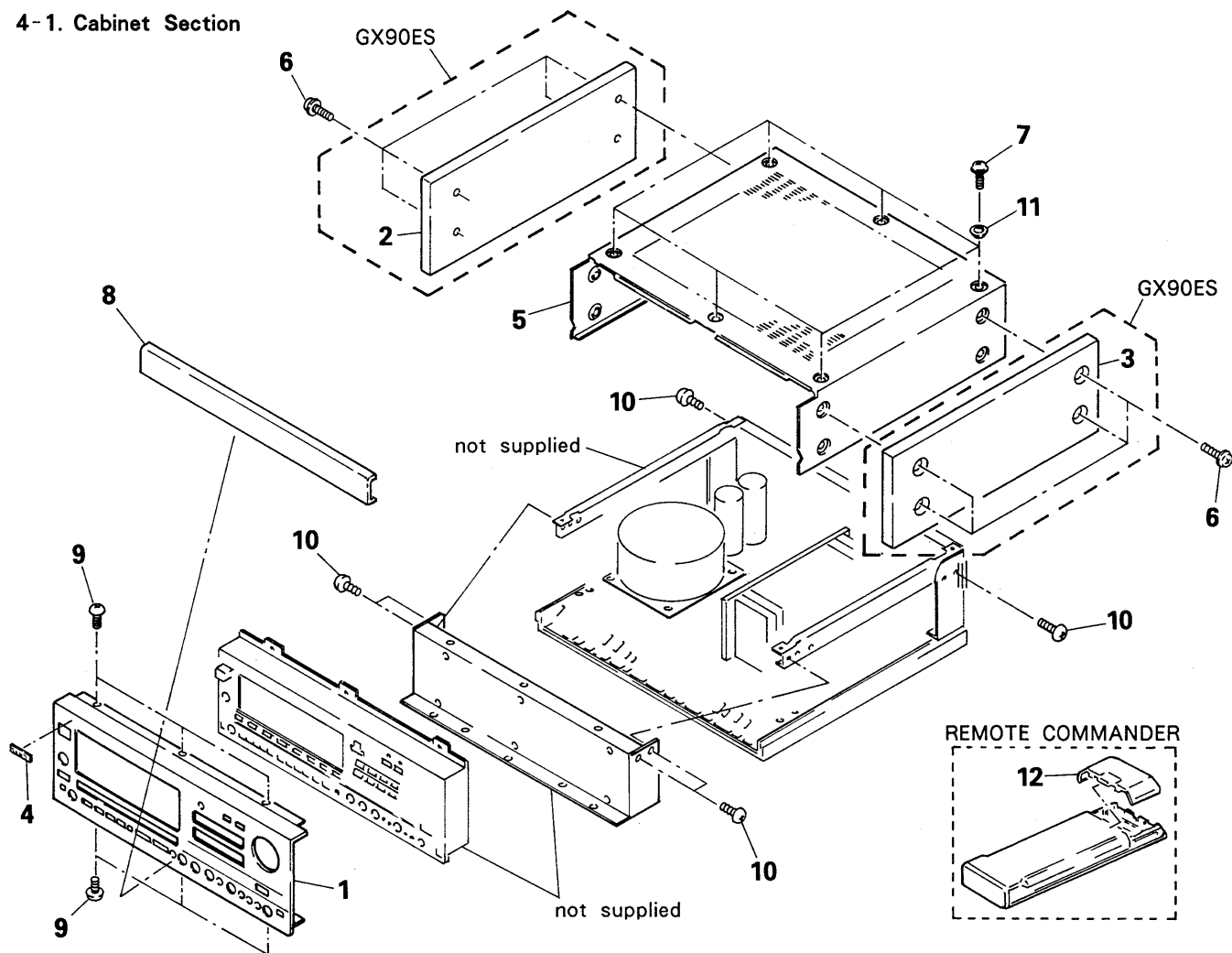
↑ ↑

Cabinet's Color Parts' Color

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

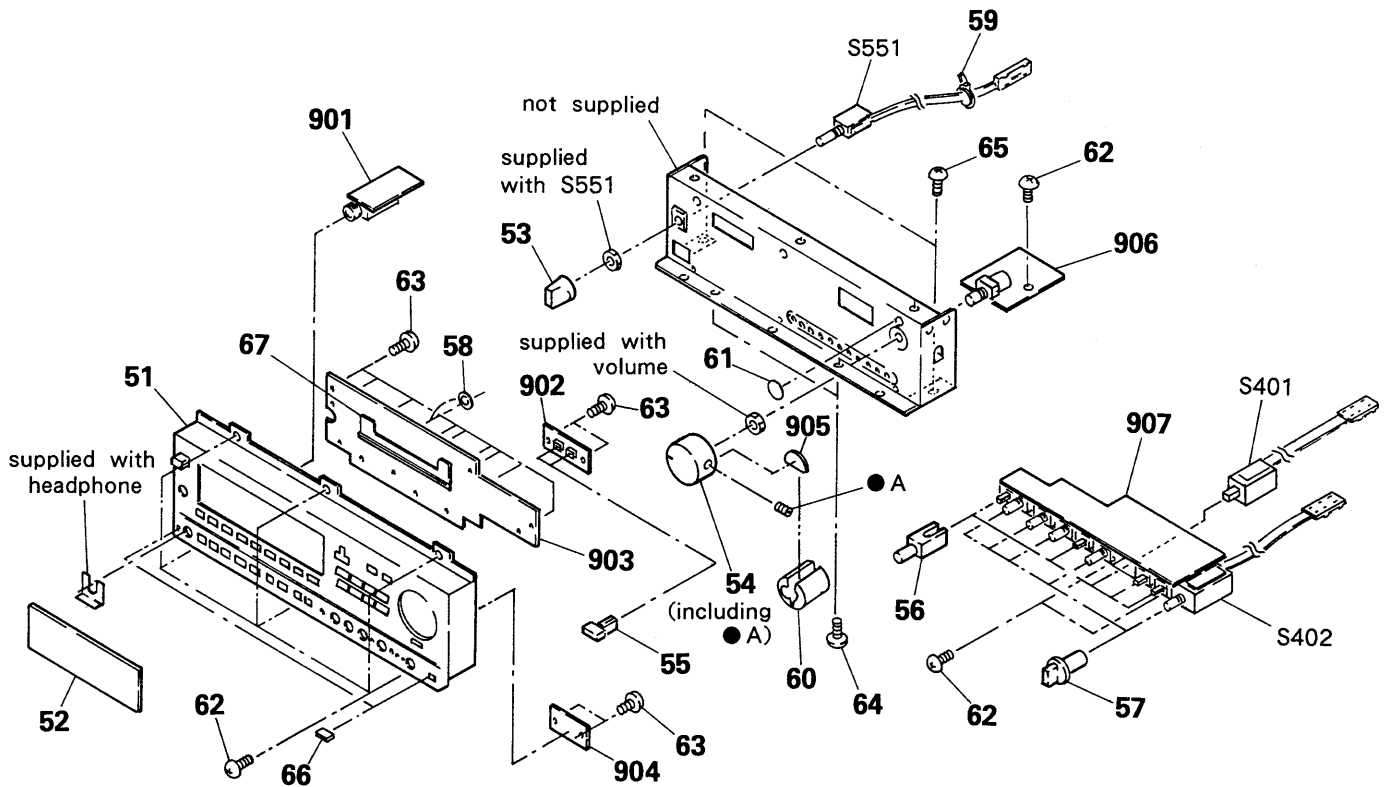
Les composants identifiés par une
marque  sont critiques pour la
sécurité.
Ne les remplacer que par une
pièce portant le numéro spécifié.

4-1. Cabinet Section



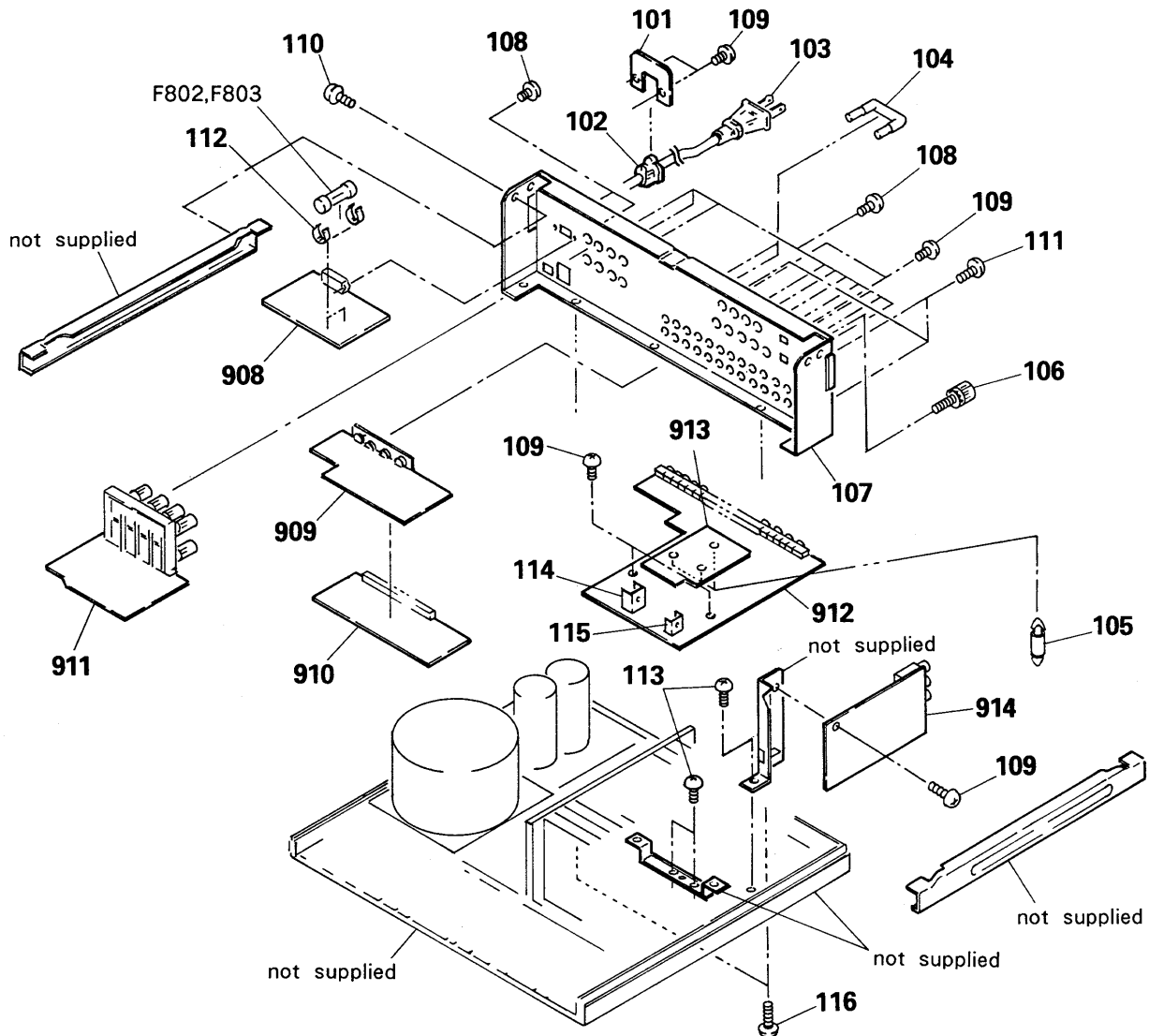
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	A-4323-519-A	(GX90ES)...PANEL ASSY, FRONT		8	A-4323-523-A	(GX90ES)...LID ASSY	
	A-4323-525-A	(GX80ES)...PANEL ASSY, FRONT			A-4323-528-A	(GX80ES)...LID ASSY	
2	X-4885-957-1	(GX90ES)...PANEL (LEFT) ASSY, SIDE		10	7-682-547-09	SCREW +B 3X6	
3	X-4885-958-1	(GX90ES)...PANEL (RIGHT) ASSY, SIDE		11	4-923-474-01	RING, ORNAMENTAL	
4	4-908-848-01	EMBLEM, SONY		12	4-925-079-01	COVER (6), BATTERY	
5	*4-931-944-12	CASE					
6	4-885-979-11	(GX90ES)...SCREW (4X25)					
	4-847-802-00	(GX80ES)...SCREW					
7	3-704-366-01	SCREW (CASE) (M3X8)					

4-2. Front Panel Section



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	X-4924-924-1	PANEL (BASE) ASSY		65	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
52	4-931-657-01	WINDOW, DISPLAY		66	1-452-419-21	MAGNET	
53	4-908-097-21	KNOB		67	*4-925-125-11	HOLDER, FL TUBE	
54	X-4924-923-1	KNOB ASSY		901	*1-635-449-11	PC BOARD, HEADPHONE	
55	4-931-642-01	BUTTON		902	*1-635-446-11	PC BOARD, S.DIRECT	
56	4-931-641-01	BUTTON (DIA. 4)		903	*A-4334-735-A	MOUNTED PCB, DISPLAY	
57	3-346-380-21	KNOB (VOL)		904	*1-635-448-11	PC BOARD, MUTING	
58	*3-555-872-21	SPACER		906	*1-635-459-11	PC BOARD, VR	
59	3-655-653-21	BAND (TAITON), BINDING		905	*1-635-447-11	PC BOARD, VR LED	
60	*4-901-919-00	HOUSE, LED LAMP		907	*A-4334-730-A	(GX90ES)...MOUNTED PCB, TONE	
61	*4-908-892-01	SPACER			*A-4334-747-A	(GX80ES)...MOUNTED PCB, TONE	
62	7-682-547-09	SCREW +BVTT 3X6 (S)		S401	1-554-019-21	(GX90ES)...SWITCH, SLIDE (REMOTE TYPE)(CARTRIDGE)	
63	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S		S402	1-571-465-11	SWITCH, SLIDE (REC OUT SELECTOR)	
64	7-685-873-09	SCREW +BVTT 3X10 (S)		S551	1-570-897-11	SWITCH, SLIDE (REMOTE)(SPEAKERS)	

4-3. Back Panel Section



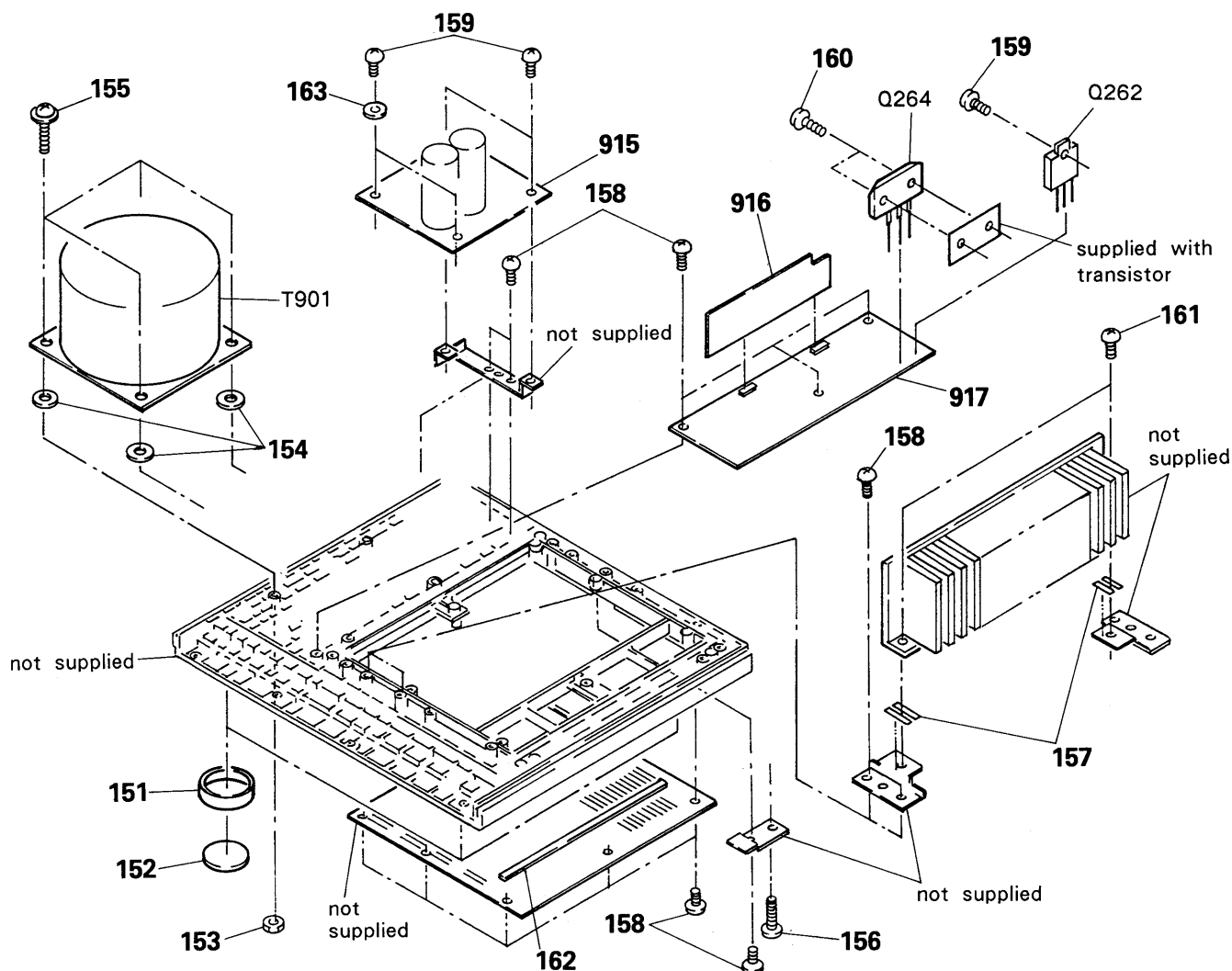
No.	Part No.	Description	Remarks
101	*4-923-873-01	BRACKET, CORD STOPPER	
102	3-703-244-00 4-916-783-01	(GX80ES)...BUSHING (2104), CORD (GX90ES)...BUSHING, CORD	
103	Δ1-559-479-11 Δ1-575-105-11 Δ1-575-383-11	(GX90ES).....CORD, POWER (GX80ES:US)....CORD, POWER (GX80ES:AEP)....CORD, POWER	
104	1-535-706-11	PLUG, JUMPER	
105	*3-682-419-01	HOLDER, P.C.B	
106	3-706-165-00	SCREW	
107	*4-931-638-01 *4-931-638-11 *4-931-639-01 *4-931-639-11	(GX90ES:US).....PANEL, BACK (GX90ES:Canadian)...PANEL, BACK (GX80ES:US).....PANEL, BACK (GX80ES:AEP).....PANEL, BACK	
108	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
109	7-682-547-09	SCREW +BVTT 3X6 (S)	
110	7-682-547-09	SCREW +B 3X6	

No.	Part No.	Description	Remarks
111	7-621-849-00	SCREW, TAPPING	
112	1-533-183-11	HOLDER, FUSE	
113	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT	
114	*3-309-144-21	HEAT SINK	
115	*4-880-403-11	HEAT SINK	
116	7-685-876-09	SCREW +BVTT 3X16 (S)	
908	*1-635-457-11	PC BOARD, 4-8 SW	
909	*1-635-454-11	PC BOARD, (S) VIDEO	
910	*A-4334-740-A	MOUNTED PCB, VIDEO	
911	*1-635-460-11	PC BOARD, SP TERMINAL	
912	*A-4334-734-A *A-4334-749-A	(GX90ES)...MOUNTED PCB, INPUT (GX80ES)...MOUNTED PCB, INPUT	
913	*1-635-456-11	PC BOARD, REC OUT	
914	*A-4334-732-A *A-4334-748-A	(GX90ES)...MOUNTED PCB, TUNER (GX80ES)...MOUNTED PCB, TUNER	

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

4-4. Chassis Section



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	4-931-967-02	RING, ORNAMENTAL		915	*A-4334-743-A	(GX90ES/GX80ES:US)...MOUNTED PCB, POWER	
152	4-924-963-01	FOOT			*A-4341-055-A	(GX80ES:AEP).....MOUNTED PCB, POWER	
153	7-684-024-04	N 4, TYPE 2		916	*A-4334-741-A	MOUNTED PCB, A CLASS	
154	4-931-976-01	WASHER (BS)		917	*A-4334-742-A	MOUNTED PCB, MAIN	
155	7-682-967-01	SCREW +PSW 4X25		T901	△1-450-021-11	(GX90ES).....TRANSFORMER, POWER	
156	7-685-153-19	SCREW +P 3X30 TYPE2 SLIT		T901	△1-450-030-11	(GX80ES:US)....TRANSFORMER, POWER	
157	*4-931-645-01	SPACER		T901	△1-450-151-11	(GX80ES:AEP)...TRANSFORMER, POWER	
158	7-685-647-79	SCREW +BVTP 3X10 TYPE2 SLIT					
159	7-682-547-09	SCREW +BVTT 3X6 (S)					
160	7-682-549-09	SCREW +B 3X10					
161	7-685-873-09	SCREW +BVTT 3X10 (S)					
162	*4-916-782-11	DAMPER					
163	4-890-173-00	WASHER					

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SECTION 5

ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:MF: μ F, PF: μ F.**RESISTORS**

- All resistors are in ohms.
- F: nonflammable

COILS

- MMH: mH, UH: μ H

SEMICONDUCTORSIn each case, U: μ , for example:UA....: μ A..., UPA....: μ PA...,UPC....: μ PC, UPD....: μ PD...

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
901	*1-635-449-11	PC BOARD, HEADPHONE	C20	1-136-155-00	FILM 0.015MF 5% 50V
902	*1-635-446-11	PC BOARD, S.DIRECT	C21	1-136-161-00	FILM 0.047MF 5% 50V
903	*A-4334-735-A	MOUNTED PCB, DISPLAY	C23	1-162-211-31	CERAMIC 33PF 5% 50V
904	*1-635-448-11	PC BOARD, MUTING	C24	1-161-379-00	CERAMIC 0.01MF 30% 16V
905	*1-635-447-11	PC BOARD, VR LED	C25	1-101-005-00	CERAMIC 0.022MF 50V
906	*1-635-459-11	PC BOARD, VR	C26	1-101-005-00	CERAMIC 0.022MF 50V
907	*A-4334-730-A	(GX90ES)...MOUNTED PCB, TONE	C27	1-162-207-31	CERAMIC 22PF 5% 50V
	*A-4334-747-A	(GX80ES)...MOUNTED PCB, TONE	C28	1-161-379-00	CERAMIC 0.01MF 30% 16V
908	*1-635-457-11	PC BOARD, 4.8 SW	C29	1-161-379-00	CERAMIC 0.01MF 30% 16V
909	*1-635-454-11	PC BOARD, (S) VIDEO	C30	1-124-477-11	ELECT 47MF 20% 16V
910	*A-4334-740-A	MOUNTED PCB, VIDEO	C31	1-123-875-11	ELECT 10MF 20% 50V
911	*1-635-460-11	PC BOARD, SP TERMINAL	C32	1-124-477-11	ELECT 47MF 20% 16V
912	*A-4334-734-A	(GX90ES)...MOUNTED PCB, INPUT	C33	1-124-902-00	ELECT 0.47MF 20% 50V
	*A-4334-749-A	(GX80ES)...MOUNTED PCB, INPUT	C34	1-124-791-11	ELECT 1MF 20% 50V
913	*1-635-456-11	PC BOARD, REC OUT	C35	1-124-791-11	ELECT 1MF 20% 50V
914	*A-4334-732-A	(GX90ES)...MOUNTED PCB, TUNER	C36	1-124-791-11	ELECT 1MF 20% 50V
	*A-4334-748-A	(GX80ES)...MOUNTED PCB, TUNER	C37	1-124-791-11	ELECT 1MF 20% 50V
915	*A-4334-743-A	(GX90ES/GX80ES:US)...MOUNTED PCB, POWER	C38	1-130-468-00	MYLAR 560PF 5% 50V
	*A-4341-055-A	(GX80ES:AEP).....MOUNTED PCB, POWER	C39	1-130-468-00	MYLAR 560PF 5% 50V
916	*A-4334-741-A	MOUNTED PCB, A CLASS	C40	1-123-875-11	ELECT 10MF 20% 50V
917	*A-4334-742-A	MOUNTED PCB, MAIN	C41	1-162-288-31	CERAMIC 330PF 10% 50V
BP201	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P	C42	1-136-161-00	FILM 0.047MF 5% 50V
BP251	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P	C43	1-161-379-00	CERAMIC 0.01MF 30% 16V
BP801	*1-535-139-00	BASE POST 19MM (10MM PITCH) 2P	C44	1-124-463-00	ELECT 0.1MF 20% 50V
C01	1-161-379-00	CERAMIC 0.01MF 30% 16V	C45	1-161-379-00	CERAMIC 0.01MF 30% 16V
C02	1-124-477-11	ELECT 47MF 20% 16V	C46	1-124-257-00	ELECT 2.2MF 20% 50V
C03	1-161-379-00	CERAMIC 0.01MF 30% 16V	C47	1-161-379-00	CERAMIC 0.01MF 30% 16V
C04	1-161-379-00	CERAMIC 0.01MF 30% 16V	C48	1-123-875-11	ELECT 10MF 20% 50V
C05	1-161-379-00	CERAMIC 0.01MF 30% 16V	C49	1-102-961-00	CERAMIC 27PF 5% 50V
C06	1-161-379-00	CERAMIC 0.01MF 30% 16V	C50	1-102-961-00	CERAMIC 27PF 5% 50V
C07	1-161-379-00	CERAMIC 0.01MF 30% 16V	C51	1-123-875-11	ELECT 10MF 20% 50V
C08	1-161-379-00	CERAMIC 0.01MF 30% 16V	C52	1-123-875-11	ELECT 10MF 20% 50V
C10	1-161-379-00	CERAMIC 0.01MF 30% 16V	C53	1-124-791-11	ELECT 1MF 20% 50V
C11	1-161-379-00	CERAMIC 0.01MF 30% 16V	C54	1-161-379-00	CERAMIC 0.01MF 30% 16V
C12	1-161-379-00	CERAMIC 0.01MF 30% 16V	C55	1-124-927-11	ELECT 4.7MF 20% 50V
C13	1-161-379-00	CERAMIC 0.01MF 30% 16V	C59	1-161-379-00	CERAMIC 0.01MF 30% 16V
C14	1-123-875-11	ELECT 10MF 20% 50V	C60	1-161-379-00	CERAMIC 0.01MF 30% 16V
C15	1-124-927-11	ELECT 4.7MF 20% 50V	C61	1-161-379-00	CERAMIC 0.01MF 30% 16V
C16	1-161-379-00	CERAMIC 0.01MF 30% 16V	C62	1-162-282-31	CERAMIC 100PF 10% 50V
C17	1-161-379-00	CERAMIC 0.01MF 30% 16V	C061	1-102-118-81	CERAMIC 0.0012MF 10% 50V
C18	1-161-379-00	CERAMIC 0.01MF 30% 16V	C062	1-124-994-11	ELECT 100MF 20% 6.3V
C19	1-124-927-11	ELECT 4.7MF 20% 50V	C063	1-124-994-11	ELECT 100MF 20% 6.3V
			C064	1-126-157-11	ELECT 10MF 20% 16V
			C065	1-123-382-00	ELECT 3.3MF 20% 50V
			C071	1-102-118-81	CERAMIC 0.0012MF 10% 50V

Ref.No.	Part No.	Description					Ref.No.	Part No.	Description				
C075	1-123-382-00	ELECT	3.3MF	20%	50V		C316	1-123-875-11	ELECT	10MF	20%	50V	
C203	1-162-282-31	CERAMIC	100PF	10%	50V		C317	1-125-445-11	DOUBLE LAYERS	0.22F		5.5V	
C204	1-126-059-11	ELECT	10MF	20%	50V		C319	1-161-494-00	CERAMIC	0.022MF		25V	
C205	1-162-199-31	CERAMIC	10PF	5%	50V		C320	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C206	1-126-022-11	ELECT	47MF	20%	16V		C321	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C207	1-162-286-31	CERAMIC	220PF	10%	50V		C322	1-126-177-11	ELECT	100MF	20%	6.3V	
C208	1-107-159-00	MICA	33PF	5%	500V		C323	1-136-165-00	FILM	0.1MF	5%	50V	
C209	1-126-022-11	ELECT	47MF	20%	16V		C324	1-136-165-00	FILM	0.1MF	5%	50V	
C210	1-126-022-11	ELECT	47MF	20%	16V		C325	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C213	1-126-051-11	ELECT	47MF	20%	50V		C327	1-161-379-00	CERAMIC	0.01MF	30%	16V	
C214	1-126-059-11	ELECT	10MF	20%	50V		C401	1-124-995-11	ELECT	220MF	20%	10V	
C215	1-126-044-11	ELECT	1MF	20%	50V		C402	1-126-012-11	ELECT	470MF	20%	16V	
C216	1-126-059-11	ELECT	10MF	20%	50V		C403	1-126-012-11	ELECT	470MF	20%	16V	
C217	1-107-159-00	MICA	33PF	5%	500V		C404	1-110-341-11	MYLAR	330PF	5%	50V	
C219	1-136-165-00	FILM	0.1MF	5%	50V		C405	1-126-023-11	ELECT	100MF	20%	25V	
C220	1-136-161-00	FILM	0.047MF	5%	50V		C406	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C221	1-136-161-00	FILM	0.047MF	5%	50V		C407	1-126-046-11	ELECT	3.3MF	20%	50V	
C222	1-107-159-00	MICA	33PF	5%	500V		C408	1-136-155-00	FILM	0.015MF	5%	50V	
C223	1-126-044-11	ELECT	1MF	20%	50V		C409	1-130-471-00	MYLAR	0.001MF	5%	50V	
C224A	1-126-025-11	ELECT	330MF	20%	10V		C410	1-136-162-00	FILM	0.056MF	5%	50V	
C224	1-126-049-11	ELECT	22MF	20%	50V		C412	1-162-282-31	CERAMIC	100PF	10%	50V	
C225	1-107-202-00	MICA	10PF	0.5PF	500V		C413	1-124-997-11	ELECT	470MF	20%	10V	
C226	1-126-059-11	ELECT	10MF	20%	50V		C414	1-126-012-11	ELECT	470MF	20%	16V	
C227	1-126-049-11	ELECT	22MF	20%	25V		C415	1-126-012-11	ELECT	470MF	20%	16V	
C228	1-126-044-11	ELECT	1MF	20%	50V		C416	1-126-024-11	ELECT	220MF	20%	25V	
C230	1-136-157-00	FILM	0.022MF	5%	50V		C417	1-126-024-11	ELECT	220MF	20%	25V	
C253	1-162-282-31	CERAMIC	100PF	10%	50V		C418	1-126-024-11	ELECT	220MF	20%	25V	
C254	1-126-059-11	ELECT	10MF	20%	50V		C419	1-124-927-11	ELECT	4.7MF	20%	50V	
C255	1-162-199-31	CERAMIC	10PF	5%	50V		C420	1-164-159-11	CERAMIC	0.1MF		50V	
C256	1-126-022-11	ELECT	47MF	20%	16V		C421	1-164-159-11	CERAMIC	0.1MF		50V	
C257	1-162-286-31	CERAMIC	220PF	10%	50V		C423	1-126-046-11	ELECT	3.3MF	20%	50V	
C258	1-107-159-00	MICA	33PF	5%	500V		C426	1-126-046-11	ELECT	3.3MF	20%	50V	
C259	1-126-022-11	ELECT	47MF	20%	16V		C427	1-164-159-11	CERAMIC	0.1MF		50V	
C260	1-126-022-11	ELECT	47MF	20%	16V		C428	1-164-159-11	CERAMIC	0.1MF		50V	
C263	1-126-051-11	ELECT	47MF	20%	50V		C461	1-124-995-11	ELECT	220MF	20%	10V	
C264	1-126-059-11	ELECT	10MF	20%	50V		C464	1-110-341-11	MYLAR	330PF	5%	50V	
C265	1-126-044-11	ELECT	1MF	20%	50V		C465	1-126-023-11	ELECT	100MF	20%	25V	
C266	1-126-059-11	ELECT	10MF	20%	50V		C466	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C267	1-107-159-00	MICA	33PF	5%	500V		C467	1-126-046-11	ELECT	3.3MF	20%	50V	
C269	1-136-165-00	FILM	0.1MF	5%	50V		C468	1-136-155-00	FILM	0.015MF	5%	50V	
C270	1-136-161-00	FILM	0.047MF	5%	50V		C469	1-130-471-00	MYLAR	0.001MF	5%	50V	
C271	1-136-161-00	FILM	0.047MF	5%	50V		C470	1-136-162-00	FILM	0.056MF	5%	50V	
C272	1-107-159-00	MICA	33PF	5%	500V		C479	1-124-927-11	ELECT	4.7MF	20%	50V	
C273	1-126-044-11	ELECT	1MF	20%	50V		C483	1-126-046-11	ELECT	3.3MF	20%	50V	
C274	1-126-049-11	ELECT	22MF	20%	50V		C501	1-136-165-00	FILM	0.1MF	5%	50V	
C275	1-107-202-00	MICA	10PF	0.5PF	500V		C502	1-136-162-00	(GX90ES)...FILM	0.056MF	5%	50V	
C301	1-161-379-00	CERAMIC	0.01MF	30%	16V		C503	1-126-044-11	ELECT	1MF	20%	50V	
C302	1-161-379-00	CERAMIC	0.01MF	30%	16V		C505	1-126-022-11	ELECT	47MF	20%	25V	
C303	1-161-379-00	CERAMIC	0.01MF	30%	16V		C506	1-162-282-31	CERAMIC	100PF	10%	50V	
C305	1-161-379-00	CERAMIC	0.01MF	30%	16V		C508	1-126-047-11	ELECT	4.7MF	20%	50V	
C308	1-161-379-00	CERAMIC	0.01MF	30%	16V		C509	1-136-164-00	FILM	0.082MF	5%	50V	
C309	1-161-379-00	CERAMIC	0.01MF	30%	16V		C510	1-136-164-00	(GX90ES)...FILM	0.082MF	5%	50V	
C310	1-124-438-00	ELECT	1MF	20%	50V		C511	1-136-156-00	FILM	0.018MF	5%	50V	
C311	1-161-379-00	CERAMIC	0.01MF	30%	16V		C512	1-136-156-00	FILM	0.018MF	5%	50V	
C312	1-161-379-00	CERAMIC	0.01MF	30%	16V		C513	1-136-165-00	FILM	0.1MF	5%	50V	
C314	1-161-379-00	CERAMIC	0.01MF	30%	16V		C514	1-136-153-00	FILM	0.01MF	5%	50V	
C315	1-124-438-00	ELECT	1MF	20%	50V		C551	1-136-165-00	FILM	0.1MF	5%	50V	

Ref.No.	Part No.	Description
C552	1-136-162-00	(GX90ES)...FILM 0.056MF 5% 50V
C553	1-126-044-11	ELECT 1MF 20% 50V
C555	1-126-022-11	ELECT 47MF 20% 25V
C556	1-162-282-31	CERAMIC 100PF 10% 50V
C558	1-126-047-11	ELECT 4.7MF 20% 50V
C559	1-136-164-00	FILM 0.082MF 5% 50V
C560	1-136-164-00	(GX90ES)...FILM 0.082MF 5% 50V
C561	1-136-156-00	FILM 0.018MF 5% 50V
C562	1-136-156-00	FILM 0.018MF 5% 50V
C563	1-136-165-00	FILM 0.1MF 5% 50V
C564	1-136-153-00	FILM 0.01MF 5% 50V
C601	1-124-925-11	ELECT 2.2MF 20% 50V
C601A	1-161-379-00	CERAMIC 0.01MF 30% 16V
C602	1-124-925-11	ELECT 2.2MF 20% 50V
C603	1-124-925-11	ELECT 2.2MF 20% 50V
C604	1-161-379-00	CERAMIC 0.01MF 30% 16V
C605	1-124-477-11	ELECT 47MF 20% 25V
C606	1-124-471-00	ELECT 1000MF 20% 6.3V
C607	1-124-471-00	ELECT 1000MF 20% 6.3V
C608	1-124-471-00	ELECT 1000MF 20% 6.3V
C701	1-124-925-11	ELECT 2.2MF 20% 50V
C702	1-124-925-11	ELECT 2.2MF 20% 50V
C704	1-124-925-11	ELECT 2.2MF 20% 50V
C705	1-124-925-11	ELECT 2.2MF 20% 50V
C708	1-124-471-00	ELECT 1000MF 20% 6.3V
C709	1-124-471-00	ELECT 1000MF 20% 6.3V
C710	1-161-379-00	CERAMIC 0.01MF 30% 16V
C711	1-124-477-11	ELECT 47MF 20% 25V
C712	1-161-379-00	CERAMIC 0.01MF 30% 16V
C713	1-124-477-11	ELECT 47MF 20% 25V
C714	1-124-925-11	ELECT 2.2MF 20% 50V
C715	1-124-925-11	ELECT 2.2MF 20% 50V
C716	1-161-379-00	CERAMIC 0.01MF 30% 16V
C801	1-125-613-11	ELECT 15000MF 20% 71V
C802	1-125-613-11	ELECT 15000MF 20% 71V
C803	1-125-636-11	ELECT 2200MF 20% 71V
C804	1-125-636-11	ELECT 2200MF 20% 71V
C805	1-126-028-11	ELECT 2200MF 20% 25V
C806	1-126-028-11	ELECT 2200MF 20% 25V
C807	1-126-052-11	ELECT 100MF 20% 50V
C808	1-126-023-11	ELECT 100MF 20% 16V
C809	1-130-777-11	FILM 0.1MF 10% 100V
C810	1-161-744-00	CERAMIC 0.01MF 400V
C811	1-161-379-00	CERAMIC 0.01MF 30% 16V
C812	1-124-902-00	ELECT 0.47MF 20% 50V
C813	1-124-464-11	ELECT 0.22MF 20% 50V
C814	1-126-059-11	ELECT 10MF 20% 50V
C815	1-126-022-11	ELECT 47MF 20% 16V
C816	1-126-027-11	ELECT 1000MF 20% 25V
C817	1-162-282-31	CERAMIC 100PF 10% 50V
C818	1-136-153-00	FILM 0.01MF 5% 50V
C819	1-136-153-00	FILM 0.01MF 5% 50V
C820	1-126-044-11	ELECT 1MF 20% 50V
C821	1-124-480-11	ELECT 470MF 20% 25V
CF01	1-567-389-11	FILTER, CERAMIC
CF02	1-567-389-11	FILTER, CERAMIC
CF03	1-567-389-11	FILTER, CERAMIC
CF04	1-567-250-11	OSCILLATOR, CERAMIC

Ref.No.	Part No.	Description
CN01	*1-569-387-11	SOCKET, CONNECTOR (PC BOARD) 10P
CN02	*1-569-380-11	SOCKET, CONNECTOR (PC BOARD) 3P
CN03	*1-569-380-11	SOCKET, CONNECTOR (PC BOARD) 3P
CN001	*1-564-508-11	PLUG, CONNECTOR 5P
CN003	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
CN004	*1-564-336-00	PIN, CONNECTOR 2P
CN005	*1-564-340-00	PIN, CONNECTOR 6P
CN051	*1-564-508-11	PLUG, CONNECTOR 5P
CN201	*1-564-506-11	PLUG, CONNECTOR 3P
CN202	*1-564-506-11	PLUG, CONNECTOR 3P
CN203	*1-564-505-11	PLUG, CONNECTOR 2P
CN204	*1-562-516-11	CONNECTOR, BOARD TO BOARD 5P
CN205	*1-564-529-11	CONNECTOR, BOARD TO BOARD 5P
CN206	*1-564-241-00	PIN, CONNECTOR 4P
CN207	*1-564-241-00	PIN, CONNECTOR 4P
CN208	*1-564-506-11	PLUG, CONNECTOR 3P
CN209	*1-564-336-00	PIN, CONNECTOR 2P
CN210	*1-564-320-00	PIN, CONNECTOR 2P
CN252	*1-564-506-11	PLUG, CONNECTOR 3P
CN253	*1-564-505-11	PLUG, CONNECTOR 2P
CN254	*1-562-516-11	CONNECTOR, BOARD TO BOARD 5P
CN255	*1-564-529-11	CONNECTOR, BOARD TO BOARD 5P
CN256	*1-564-241-00	PIN, CONNECTOR 4P
CN301	*1-564-336-31	PIN, CONNECTOR 2P
CN302	*1-564-342-11	PIN, CONNECTOR 8P
CN304	*1-564-340-21	PIN, CONNECTOR 6P
CN305	*1-506-503-11	PIN, CONNECTOR 9P
CN401	*1-561-651-00	SOCKET, CONNECTOR 7P
CN402	*1-561-651-00	SOCKET, CONNECTOR 7P
CN403	*1-561-651-00	SOCKET, CONNECTOR 7P
CN403A	*1-569-395-11	PIN, CONNECTOR (PC BOARD) 10P
CN404	*1-561-650-00	SOCKET, CONNECTOR 5P
CN404A	*1-569-388-11	PIN, CONNECTOR (PC BOARD) 3P
CN405	*1-569-388-11	PIN, CONNECTOR (PC BOARD) 3P
CN406	*1-564-342-11	PIN, CONNECTOR 8P
CN407	*1-564-336-31	PIN, CONNECTOR 2P
CN408	*1-565-367-11	PIN, CONNECTOR (PC BOARD) 5P
CN409	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN411	*1-564-505-11	PLUG, CONNECTOR 2P
CN412	*1-564-336-00	PIN, CONNECTOR 2P
CN413	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CN414	*1-564-506-11	PLUG, CONNECTOR 3P
CN419	*1-564-505-11	PLUG, CONNECTOR 2P
CN420	*1-564-507-11	PLUG, CONNECTOR 4P
CN421	*1-565-366-11	PIN, CONNECTOR (PC BOARD) 7P
CN422	*1-565-366-11	PIN, CONNECTOR (PC BOARD) 7P
CN423	*1-565-366-11	PIN, CONNECTOR (PC BOARD) 7P
CN504A	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CN505	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CN551	*1-564-320-00	PIN, CONNECTOR 2P
CN552	*1-564-321-00	PIN, CONNECTOR 2P
CN553	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
CN554A	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CN554C	*1-506-503-71	PIN, CONNECTOR 9P
CN555	*1-506-503-11	PIN, CONNECTOR 9P
CN602	*1-564-340-21	PIN, CONNECTOR 6P
CN603	*1-564-336-00	PIN, CONNECTOR 2P
CN604	*1-566-213-11	PIN, CONNECTOR 4P (CONTROL-S IN)

Ref.No.	Part No.	Description
CN701	*1-564-339-00	PIN, CONNECTOR 5P
CN702	*1-564-338-31	PIN, CONNECTOR 4P
CN703	1-566-213-11	PIN, CONNECTOR 4P (CONTROL-S OUT)
CN801	*1-564-674-11	PIN, CONNECTOR 8P
CN802	*1-535-139-00	(GX90ES)(GX80ES:US)...PIN, CONNECTOR 2P
CN802	1-564-320-00	(GX80ES:AEP).....PIN, CONNECTOR 2P
CN803	1-564-320-00	PIN, CONNECTOR 2P
CN804	*1-560-061-00	PIN, CONNECTOR 3P
CN805	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN806	*1-564-705-11	PIN, CONNECTOR (SMALL TYPE) 3P
CN807	*1-560-061-00	PIN, CONNECTOR 3P
CN808	*1-564-321-00	PIN, CONNECTOR 2P
CN809	*1-564-321-00	PIN, CONNECTOR 2P
CN810	*1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN811	*1-564-241-00	PIN, CONNECTOR 4P
CN812	1-564-320-00	PIN, CONNECTOR 2P
CN901	*1-564-704-11	PIN, CONNECTOR (SMALL TYPE) 2P
CNJ801	1-540-059-11	(GX90ES)(GX80ES:US)...OUTLET, AC (POLAR)
D01	8-719-912-20	DIODE 1SS120
D02	8-719-912-20	DIODE 1SS120
D03	8-719-912-20	DIODE 1SS120
D001	8-719-303-02	DIODE SEL2510C-D
D201	8-719-912-20	DIODE 1SS120
D202	8-719-933-39	DIODE HZS6C1L
D203	8-719-933-39	DIODE HZS6C1L
D204	8-719-912-20	DIODE 1SS120
D205	8-719-912-20	DIODE 1SS120
D206	8-719-912-20	DIODE 1SS120
D207	8-719-912-20	DIODE 1SS120
D208	8-719-912-20	DIODE 1SS120
D209A	8-719-912-20	DIODE 1SS120
D209	8-719-912-20	DIODE 1SS120
D210	8-719-912-20	DIODE 1SS120
D211	8-719-912-20	DIODE 1SS120
D212	8-719-912-20	DIODE 1SS120
D213	8-719-200-02	DIODE 10E2
D251	8-719-912-20	DIODE 1SS120
D252	8-719-933-39	DIODE HZS6C1L
D253	8-719-933-39	DIODE HZS6C1L
D254	8-719-912-20	DIODE 1SS120
D255	8-719-912-20	DIODE 1SS120
D256	8-719-912-20	DIODE 1SS120
D257	8-719-912-20	DIODE 1SS120
D258	8-719-912-20	DIODE 1SS120
D259A	8-719-912-20	DIODE 1SS120
D259	8-719-912-20	DIODE 1SS120
D260	8-719-912-20	DIODE 1SS120
D261	8-719-912-20	DIODE 1SS120
D301	8-719-301-52	DIODE SEL2810A-C
D302	8-719-301-52	DIODE SEL2810A-C
D303	8-719-301-52	DIODE SEL2810A-C
D307	8-719-912-20	(GX80ES:AEP)...DIODE 1SS120
D308	8-719-912-20	(GX90ES)(GX80ES:US)...DIODE 1SS120
D310	8-719-912-20	DIODE 1SS120
D311	8-719-912-20	DIODE 1SS120

Ref.No.	Part No.	Description
D312	8-719-912-20	DIODE 1SS120
D316	8-719-912-20	DIODE 1SS120
D317	8-719-912-20	DIODE 1SS120
D318	8-719-914-11	DIODE HZ4ALL
D319	8-719-912-20	DIODE 1SS120
D320	8-719-912-20	DIODE 1SS120
D321	8-719-912-20	DIODE 1SS120
D322	8-719-912-20	DIODE 1SS120
D323	8-719-912-20	DIODE 1SS120
D324	8-719-912-20	DIODE 1SS120
D325	8-719-912-20	DIODE 1SS120
D326	8-719-912-20	DIODE 1SS120
D327	8-719-912-20	DIODE 1SS120
D329	8-719-912-20	DIODE 1SS120
D330	8-719-301-52	DIODE SEL2810A-C
D331	8-719-912-20	DIODE 1SS120
D332	8-719-912-20	DIODE 1SS120
D333	8-719-912-20	DIODE 1SS120
D334	8-719-912-20	(GX80ES:AEP)...DIODE 1SS120
D335	8-719-912-20	(GX80ES:AEP)...DIODE 1SS120
D341	8-719-302-07	DIODE SEL1810A-C
D342	8-719-302-07	DIODE SEL1810A-C
D401	8-719-000-84	DIODE UZL-7M1
D402	8-719-001-70	DIODE UZL-12M1
D403	8-719-001-70	DIODE UZL-12M1
D409	8-719-912-20	DIODE 1SS120
D410	8-719-010-36	DIODE UZ-5.1BS
D412	8-719-010-36	DIODE UZ-5.1BS
D460	8-719-000-84	DIODE UZL-7M1
D601	8-719-200-02	DIODE 10E2
D602	8-719-912-20	DIODE 1SS120
D801	8-719-302-38	DIODE RBV-602-01
D802	8-719-312-09	DIODE RBA-402
D803	8-719-302-92	DIODE RB-151LFB
D804	8-719-904-87	DIODE EQA02-28A
D805	8-719-912-20	DIODE 1SS120
D806	8-719-912-20	DIODE 1SS120
D807	8-719-914-11	DIODE HZ4ALL
D808	8-719-933-41	DIODE HZS6C3L
D809	8-719-933-41	DIODE HZS6C3L
D810	8-719-200-02	DIODE 10E2
D811	8-719-200-02	DIODE 10E2
D812	8-719-200-02	DIODE 10E2
D813	8-719-200-02	DIODE 10E2
D814	8-719-912-20	DIODE 1SS120
D815	8-719-912-20	DIODE 1SS120
D816	8-719-000-84	DIODE UZL-7M1
D817	8-719-200-02	DIODE 10E2
D818	8-719-200-02	DIODE 10E2
F801	1-532-749-11	FUSE, GLASS TUBE (8A)
F802	1-532-749-11	(GX90ES)(GX80ES:US)...FUSE, GLASS TUBE (8A)
F803	1-532-749-11	(GX90ES)(GX80ES:US)...FUSE, GLASS TUBE (8A)
FE01	1-463-862-21	(GX80ES:US).....FRONT END
FE01	1-465-219-11	(GX90ES)(GX80ES:AEP)...FRONT END
FE02	1-236-461-11	ENCAPSULATED COMPONENT

Note:

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref.No.	Part No.	Description
FL301	1-519-592-11	INDICATOR TUBE, FLUORESCENT
IC01	8-759-804-55	IC LA1266
IC02	8-759-801-80	IC LA3401
IC03	8-759-820-91	IC LC7218
IC001	8-759-820-62	IC LB1639
IC201	8-759-981-96	IC RC4560D
IC202	8-759-917-42	IC IR2E31A
IC203	8-759-111-68	IC UPC1237HA
IC204	8-759-112-93	IC UPC4570HA-1
IC252	8-759-917-42	IC IR2E31A
IC301	8-759-149-47	IC UPD75206G-557-1B
IC302	8-759-801-57	IC LB1494
IC303	8-749-920-59	IC AIQH3020S
IC401	8-759-112-93	IC UPC4570HA-1
IC402	8-759-112-93	IC UPC4570HA-1
IC403	8-759-112-93	IC UPC4570HA-1
IC404	8-759-112-93	IC UPC4570HA-1
IC405	8-759-112-93	IC UPC4570HA-1
IC406	8-759-112-93	IC UPC4570HA-1
IC407	8-759-112-93	IC UPC4570HA-1
IC408	8-759-805-14	IC LC7822
IC409	8-759-805-14	IC LC7822
IC410	8-759-981-96	IC RC4560D
IC411	8-759-604-35	IC M5F78M05L
IC412	8-759-604-40	IC M5F78M15L
IC413	8-759-604-46	IC M5F79M15L
IC414	8-759-112-93	IC UPC4570HA-1
IC501	8-759-981-96	IC RC4560D
IC601	8-759-991-77	IC BA7625
IC701	8-759-991-77	IC BA7625
IC702	8-759-991-77	IC BA7625
J201	1-565-320-11	JACK, PIN 6P (ADAPTOR IN/PRE OUT/POWER IN)
J202	1-565-320-11	JACK, PIN 6P (ADAPTOR OUT/VIDEO 1 IN/OUT)
J203	1-565-258-11	JACK, PIN 4P (VIDEO 2 IN/OUT)
J204	1-565-258-11	JACK, PIN 4P (VIDEO 3/TAPE IN)
J205	1-565-258-11	JACK, PIN 4P (DAT IN/TAPE OUT)
J206	1-565-320-11	JACK, PIN 6P (PHONO IN/DAT RECOU/CD IN)
J601	1-565-351-11	JACK, PIN 3P (MONITOR OUT/VIDEO 1 IN/OUT)
J602	1-565-351-21	JACK, PIN 3P (VIDEO 2 OUT/IN, VIDEO 3 IN)
J701	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (VIDEO 1 IN)
J702	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (VIDEO 2 IN)
J703	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (MONITOR OUT)
J704	1-566-846-11	CONNECTOR, (S) TERMINAL 4P (VIDEO 1 OUT)
J901	1-507-796-71	JACK
L01	1-410-509-11	INDUCTOR 10UH
L02	1-410-509-11	INDUCTOR 10UH
L04	1-410-613-11	INDUCTOR 1MMH
L201	*1-420-872-00	COIL, AIR CORE
L251	*1-420-872-00	COIL, AIR CORE
L301	1-408-563-11	INDUCTOR 10UH
L601	1-410-521-11	INDUCTOR 100UH
L701	1-410-521-11	INDUCTOR 100UH
L702	1-410-521-11	INDUCTOR 100UH

Ref.No.	Part No.	Description
LPF01	1-235-164-00	FILTER, LOW PASS
LPF02	1-235-164-00	FILTER, LOW PASS
PH201	8-719-946-27	DIODE PC837
PH251	8-719-946-27	DIODE PC837
Q01	8-729-266-93	TRANSISTOR 2SC2669-Y
Q02	8-729-266-93	TRANSISTOR 2SC2669-Y
Q03	8-729-266-93	TRANSISTOR 2SC2669-Y
Q04	8-729-266-93	TRANSISTOR 2SC2669-Y
Q10	8-729-201-84	TRANSISTOR 2SC3112-B
Q11	8-729-203-05	TRANSISTOR 2SK30AGR33-GR3
Q12	8-729-900-74	TRANSISTOR DTC143TS
Q13	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q14	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q15	8-729-900-74	TRANSISTOR DTC143TS
Q200	8-729-107-99	TRANSISTOR 2SC3622A-K
Q201	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q202	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA
Q203	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA
Q204	8-729-203-21	TRANSISTOR 2SK389-GR
Q205	8-729-203-45	TRANSISTOR 2SC3423-0
Q206	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q207	8-729-209-17	TRANSISTOR 2SA1360-0
Q208	8-729-203-45	TRANSISTOR 2SC3423-0
Q209	8-729-209-15	TRANSISTOR 2SD2012
Q210	8-729-141-08	TRANSISTOR 2SA1383-QP
Q211	8-729-141-07	TRANSISTOR 2SC3514-QP
Q212	8-729-141-46	TRANSISTOR 2SC4431-LK
Q213	8-729-141-37	TRANSISTOR 2SA1684-LK
Q214	8-729-322-28	TRANSISTOR 2SC2922-M-OY
Q215	8-729-322-29	TRANSISTOR 2SA1216-M-OY
Q216	8-729-108-14	TRANSISTOR 2SA988-F
Q250	8-729-107-99	TRANSISTOR 2SC3622A-K
Q251	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q252	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA
Q253	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA
Q254	8-729-203-21	TRANSISTOR 2SK389-GR
Q255	8-729-203-45	TRANSISTOR 2SC3423-0
Q256	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q257	8-729-209-17	TRANSISTOR 2SA1360-0
Q258	8-729-203-45	TRANSISTOR 2SC3423-0
Q259	8-729-209-15	TRANSISTOR 2SD2012
Q260	8-729-141-08	TRANSISTOR 2SA1383-QP
Q261	8-729-141-07	TRANSISTOR 2SC3514-QP
Q262	8-729-141-46	TRANSISTOR 2SC4431-LK
Q263	8-729-141-37	TRANSISTOR 2SA1684-LK
Q264	8-729-322-28	TRANSISTOR 2SC2922-M-OY
Q265	8-729-322-29	TRANSISTOR 2SA1216-M-OY
Q266	8-729-108-14	TRANSISTOR 2SA988-F
Q301	8-729-900-89	TRANSISTOR DTC144ES
Q302	8-729-115-27	TRANSISTOR BN1L3Z-P
Q303	8-729-900-89	TRANSISTOR DTC144ES
Q304	8-729-900-89	TRANSISTOR DTC144ES
Q305	8-729-900-63	TRANSISTOR DTA124ES
Q401	8-729-184-53	TRANSISTOR 2SC1845-EA
Q402	8-729-184-53	TRANSISTOR 2SC1845-EA
Q404	8-729-115-27	TRANSISTOR BN1L3Z-P
Q405	8-729-107-99	TRANSISTOR 2SC3622A-K
Q461	8-729-184-53	TRANSISTOR 2SC1845-EA

Ref.No.	Part No.	Description
Q462	8-729-184-53	TRANSISTOR 2SC1845-EA
Q465	8-729-107-99	TRANSISTOR 2SC3622A-K
Q501	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q551	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q602	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q603	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q604	8-729-900-80	TRANSISTOR DTC114ES
Q605	8-729-900-80	TRANSISTOR DTC114ES
Q606	8-729-141-26	TRANSISTOR 2SC3622A-LK
Q607	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q608	8-729-202-55	TRANSISTOR 2SA950-0
Q702	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q703	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q705	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q706	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q801	8-729-140-05	TRANSISTOR 2SB1116A-K
Q802	8-729-620-05	TRANSISTOR 2SC2603-EF
Q803	8-729-900-89	TRANSISTOR DTC144ES
Q804	8-729-900-63	TRANSISTOR DTA124ES
Q805	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q806	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q807	8-729-620-05	TRANSISTOR 2SC2603-EF
Q808	8-729-107-25	TRANSISTOR 2SD1585-L
Q809	8-729-620-05	TRANSISTOR 2SC2603-EF
R01	1-249-411-11	CARBON 330 5% 1/4W
R02	1-249-411-11	CARBON 330 5% 1/4W
R03	1-249-408-11	CARBON 180 5% 1/4W
R04	1-249-414-11	CARBON 560 5% 1/4W
R05	1-249-411-11	CARBON 330 5% 1/4W
R06	1-249-434-11	CARBON 27K 5% 1/4W
R07	1-249-432-11	CARBON 18K 5% 1/4W
R09	1-249-411-11	CARBON 330 5% 1/4W
R10	1-249-434-11	CARBON 27K 5% 1/4W
R11	1-249-414-11	CARBON 560 5% 1/4W
R12	1-249-432-11	CARBON 18K 5% 1/4W
R17	1-249-437-11	CARBON 47K 5% 1/4W
R18	1-249-433-11	(GX90ES)(GX80ES:AEP) ...CARBON 22K 5% 1/4W
R21	1-249-437-11	(GX90ES)(GX80ES:AEP) ...CARBON 47K 5% 1/4W
R22	1-249-421-11	CARBON 2.2K 5% 1/4W
R23	1-249-434-11	CARBON 27K 5% 1/4W
R24	1-249-402-11	CARBON 56 5% 1/4W
R25	1-249-429-11	CARBON 10K 5% 1/4W
R26	1-249-404-00	CARBON 82 5% 1/4W
R27	1-249-429-11	CARBON 10K 5% 1/4W
R28	1-249-423-11	CARBON 3.3K 5% 1/4W
R29	1-249-441-11	CARBON 100K 5% 1/4W
R30	1-249-417-11	CARBON 1K 5% 1/4W
R31	1-249-431-11	CARBON 15K 5% 1/4W
R32	1-249-423-11	CARBON 3.3K 5% 1/4W
R33	1-249-417-11	CARBON 1K 5% 1/4W
R34	1-249-406-11	CARBON 120 5% 1/4W
R35	1-249-438-11	CARBON 56K 5% 1/4W
R36	1-249-406-11	CARBON 120 5% 1/4W
R37	1-249-423-11	CARBON 3.3K 5% 1/4W
R38	1-249-417-11	CARBON 1K 5% 1/4W
R39	1-249-429-11	CARBON 10K 5% 1/4W

Ref.No.	Part No.	Description
R40	1-249-417-11	CARBON 1K 5% 1/4W
R43	1-247-883-00	CARBON 150K 5% 1/4W
R44	1-247-883-00	CARBON 150K 5% 1/4W
R45	1-247-883-00	CARBON 150K 5% 1/4W
R46	1-247-883-00	CARBON 150K 5% 1/4W
R47	1-249-429-11	CARBON 10K 5% 1/4W
R48	1-249-405-11	CARBON 100 5% 1/4W
R49	1-249-425-11	CARBON 4.7K 5% 1/4W
R50	1-249-421-11	CARBON 2.2K 5% 1/4W
R51	1-249-425-11	CARBON 4.7K 5% 1/4W
R52	1-249-414-11	CARBON 560 5% 1/4W
R53	1-249-425-11	CARBON 4.7K 5% 1/4W
R54	1-249-423-11	CARBON 3.3K 5% 1/4W
R55	1-249-418-11	CARBON 1.2K 5% 1/4W
R56	1-249-413-11	CARBON 470 5% 1/4W
R57	1-249-406-11	CARBON 120 5% 1/4W
R58	1-249-429-11	CARBON 10K 5% 1/4W
R59	1-249-429-11	CARBON 10K 5% 1/4W
R60	1-249-429-11	CARBON 10K 5% 1/4W
R61	1-249-429-11	CARBON 10K 5% 1/4W
R62	1-249-437-11	CARBON 47K 5% 1/4W
R63	1-249-437-11	CARBON 47K 5% 1/4W
R64	1-249-433-11	CARBON 22K 5% 1/4W
R65	1-249-421-11	CARBON 2.2K 5% 1/4W
R66	1-249-421-11	CARBON 2.2K 5% 1/4W
R67	1-249-425-11	CARBON 4.7K 5% 1/4W
R68	1-249-425-11	CARBON 4.7K 5% 1/4W
R69	1-249-438-11	CARBON 56K 5% 1/4W
R71	1-249-411-11	CARBON 330 5% 1/4W
R72	1-249-411-11	CARBON 330 5% 1/4W
R73	1-249-423-11	CARBON 3.3K 5% 1/4W
R74	1-249-411-11	CARBON 330 5% 1/4W
R040	1-249-417-11	CARBON 1K 5% 1/4W
R041	1-249-417-11	CARBON 1K 5% 1/4W
R042	1-249-417-11	CARBON 1K 5% 1/4W
R043	1-249-417-11	CARBON 1K 5% 1/4W
R051	1-249-417-11	CARBON 1K 5% 1/4W
R052	1-249-405-11	CARBON 100 5% 1/4W
R055	1-249-417-11	CARBON 1K 5% 1/4W
R061	1-249-431-11	CARBON 15K 5% 1/4W
R062	1-249-417-11	CARBON 1K 5% 1/4W
R071	1-249-431-11	CARBON 15K 5% 1/4W
R201	1-249-405-11	CARBON 100 5% 1/4W
R202	1-249-437-11	CARBON 47K 5% 1/4W
R203	1-249-419-11	CARBON 1.5K 5% 1/4W
R204	1-249-429-11	CARBON 10K 5% 1/4W
R205	1-249-405-11	CARBON 100 5% 1/4W
R206	1-249-441-11	CARBON 100K 5% 1/4W
R208	1-249-417-11	CARBON 1K 5% 1/4W
R209	1-249-409-11	CARBON 220 5% 1/4W
R210	1-249-409-11	CARBON 220 5% 1/4W
R211	1-249-405-11	CARBON 100 5% 1/4W
R212	1-249-421-11	CARBON 2.2K 5% 1/4W
R213	1-249-419-11	CARBON 1.5K 5% 1/4W
R214	1-247-903-00	CARBON 1M 5% 1/4W
R215	1-212-881-11	FUSIBLE 100 5% 1/4W F
R216	1-249-586-11	CARBON 27K 5% 1/4W
R217	1-247-903-00	CARBON 1M 5% 1/4W

Ref.No.	Part No.	Description				
R218	1-249-586-11	CARBON	27K	5%	1/4W	
R219	1-247-713-11	CARBON	1K	5%	1/4W	
R220	1-249-425-11	CARBON	4.7K	5%	1/4W	
R221	1-212-881-11	FUSIBLE	100	5%	1/4W	F
R222	1-249-433-11	CARBON	22K	5%	1/4W	
R223	1-249-429-11	CARBON	10K	5%	1/4W	
R224	1-249-437-11	CARBON	47K	5%	1/4W	
R225	1-247-848-11	CARBON	5.1K	5%	1/4W	
R226	1-247-848-11	CARBON	5.1K	5%	1/4W	
R227	△1-247-718-11	CARBON	2.7K	5%	1/4W	F
R228	△1-247-710-11	CARBON	560	5%	1/4W	F
R229	1-249-417-11	CARBON	1K	5%	1/4W	
R231	1-249-429-11	CARBON	10K	5%	1/4W	
R232	1-247-903-00	CARBON	1M	5%	1/4W	
R233	△1-212-958-00	FUSIBLE	10	5%	1/2W	F
R233A	1-249-441-11	CARBON	100K	5%	1/4W	
R234	△1-212-998-00	FUSIBLE	470	5%	1/2W	F
R235	△1-212-958-00	FUSIBLE	10	5%	1/2W	F
R236	△1-212-958-00	FUSIBLE	10	5%	1/2W	F
R237	△1-212-982-00	FUSIBLE	100	5%	1/2W	F
R238	△1-212-958-00	FUSIBLE	10	5%	1/2W	F
R238A	1-247-891-00	CARBON	330K	5%	1/4W	
R239	1-217-611-00	RES, METAL PLATE 0.1				
R239A	1-249-417-11	CARBON	1K	5%	1/4W	
R240	1-217-611-00	RES, METAL PLATE 0.1				
R241	△1-247-717-11	CARBON	2.2K	5%	1/4W	F
R242	1-247-891-00	CARBON	330K	5%	1/4W	
R243	1-249-431-11	CARBON	15K	5%	1/4W	
R244	△1-212-950-00	FUSIBLE	4.7	5%	1/2W	F
R245	△1-212-950-00	FUSIBLE	4.7	5%	1/2W	F
R246	1-247-727-11	CARBON	10	5%	1/2W	
R247	1-249-431-11	CARBON	15K	5%	1/4W	
R248	1-249-429-11	CARBON	10K	5%	1/4W	
R249	1-247-887-00	CARBON	220K	5%	1/4W	
R251	1-249-405-11	CARBON	100	5%	1/4W	
R252	1-249-437-11	CARBON	47K	5%	1/4W	
R253	1-249-419-11	CARBON	1.5K	5%	1/4W	
R254	1-249-429-11	CARBON	10K	5%	1/4W	
R255	1-249-405-11	CARBON	100	5%	1/4W	
R256	1-249-441-11	CARBON	100K	5%	1/4W	
R258	1-249-417-11	CARBON	1K	5%	1/4W	
R259	1-249-409-11	CARBON	220	5%	1/4W	
R260	1-249-409-11	CARBON	220	5%	1/4W	
R261	1-249-405-11	CARBON	100	5%	1/4W	
R262	1-249-421-11	CARBON	2.2K	5%	1/4W	
R263	1-249-419-11	CARBON	1.5K	5%	1/4W	
R264	1-247-903-00	CARBON	1M	5%	1/4W	
R265	△1-212-881-11	FUSIBLE	100	5%	1/4W	F
R266	1-249-586-11	CARBON	27K	5%	1/4W	
R267	1-247-903-00	CARBON	1M	5%	1/4W	
R268	1-249-586-11	CARBON	27K	5%	1/4W	
R269	1-247-713-11	CARBON	1K	5%	1/4W	
R270	1-249-425-11	CARBON	4.7K	5%	1/4W	
R271	△1-212-881-11	FUSIBLE	100	5%	1/4W	F
R272	1-249-433-11	CARBON	22K	5%	1/4W	
R273	1-249-429-11	CARBON	10K	5%	1/4W	
R274	1-249-437-11	CARBON	47K	5%	1/4W	

Ref.No.	Part No.	Description				
R275	1-247-848-11	CARBON	5.1K	5%	1/4W	
R276	1-247-848-11	CARBON	5.1K	5%	1/4W	
R277	△1-247-718-11	CARBON	2.7K	5%	1/4W	F
R278	△1-247-710-11	CARBON	560	5%	1/4W	F
R279	1-249-417-11	CARBON	1K	5%	1/4W	
R281	1-249-429-11	CARBON	10K	5%	1/4W	
R282	1-247-903-00	CARBON	1M	5%	1/4W	
R283	△1-212-958-00	FUSIBLE	10	5%	1/2W	F
R283A	1-249-441-11	CARBON	100K	5%	1/4W	
R284	△1-212-998-00	FUSIBLE	470	5%	1/2W	F
R285	△1-212-958-00	FUSIBLE	10	5%	1/2W	F
R286	△1-212-958-00	FUSIBLE	10	5%	1/2W	F
R287	△1-212-982-00	FUSIBLE	100	5%	1/2W	F
R288	△1-212-958-00	FUSIBLE	10	5%	1/2W	F
R288A	1-247-891-00	CARBON	330K	5%	1/4W	
R289	1-217-611-00	RES, METAL PLATE 0.1				
R289A	1-249-417-11	CARBON	1K	5%	1/4W	
R290	1-217-611-00	RES, METAL PLATE 0.1				
R291	△1-247-717-11	CARBON	2.2K	5%	1/4W	F
R292	1-247-891-00	CARBON	330K	5%	1/4W	
R293	1-249-431-11	CARBON	15K	5%	1/4W	
R294	△1-212-950-00	FUSIBLE	4.7	5%	1/2W	F
R295	△1-212-950-00	FUSIBLE	4.7	5%	1/2W	F
R296	1-247-727-11	CARBON	10	5%	1/2W	
R301	1-249-401-11	CARBON	47	5%	1/4W	
R302	1-249-381-11	CARBON	1	5%	1/4W	
R303	1-249-437-11	CARBON	47K	5%	1/4W	
R304	1-249-437-11	CARBON	47K	5%	1/4W	
R305	1-249-429-11	CARBON	10K	5%	1/4W	
R306	1-249-437-11	CARBON	47K	5%	1/4W	
R307	1-249-437-11	CARBON	47K	5%	1/4W	
R308	1-249-437-11	CARBON	47K	5%	1/4W	
R309	1-249-437-11	CARBON	47K	5%	1/4W	
R310	1-249-437-11	CARBON	47K	5%	1/4W	
R311	1-249-437-11	CARBON	47K	5%	1/4W	
R312	1-249-437-11	CARBON	47K	5%	1/4W	
R313	1-249-437-11	CARBON	47K	5%	1/4W	
R314	1-249-437-11	CARBON	47K	5%	1/4W	
R315	1-249-437-11	CARBON	47K	5%	1/4W	
R316	1-249-437-11	CARBON	47K	5%	1/4W	
R317	1-249-437-11	CARBON	47K	5%	1/4W	
R318	1-249-437-11	CARBON	47K	5%	1/4W	
R319	1-249-437-11	CARBON	47K	5%	1/4W	
R320	1-249-437-11	CARBON	47K	5%	1/4W	
R321	1-249-437-11	CARBON	47K	5%	1/4W	
R322	1-249-437-11	CARBON	47K	5%	1/4W	
R323	1-249-437-11	CARBON	47K	5%	1/4W	
R324	1-249-437-11	CARBON	47K	5%	1/4W	
R325	1-249-437-11	CARBON	47K	5%	1/4W	
R326	1-249-381-11	CARBON	1	5%	1/4W	
R327	1-249-437-11	CARBON	47K	5%	1/4W	
R328	1-249-437-11	CARBON	47K	5%	1/4W	
R329	1-249-437-11	CARBON	47K	5%	1/4W	
R330	1-249-437-11	CARBON	47K	5%	1/4W	
R331	1-249-437-11	CARBON	47K	5%	1/4W	
R332	1-249-437-11	CARBON	47K	5%	1/4W	

Note:

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:

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Ref.No.	Part No.	Description			
R333	1-249-437-11	CARBON	47K	5%	1/4W
R334	1-249-437-11	CARBON	47K	5%	1/4W
R335	1-249-437-11	CARBON	47K	5%	1/4W
R336	1-249-437-11	CARBON	47K	5%	1/4W
R337	1-249-433-11	CARBON	22K	5%	1/4W
R338	1-249-437-11	CARBON	47K	5%	1/4W
R339	1-249-437-11	CARBON	47K	5%	1/4W
R340	1-249-409-11	CARBON	220	5%	1/4W
R341	1-249-429-11	CARBON	10K	5%	1/4W
R342	1-249-437-11	CARBON	47K	5%	1/4W
R343	1-249-437-11	CARBON	47K	5%	1/4W
R345	1-249-433-11	CARBON	22K	5%	1/4W
R346	1-249-407-11	CARBON	150	5%	1/4W
R347	1-249-407-11	CARBON	150	5%	1/4W
R348	1-249-407-11	CARBON	150	5%	1/4W
R349	1-249-411-11	CARBON	330	5%	1/4W
R350	1-249-425-11	CARBON	4.7K	5%	1/4W
R351	1-249-411-11	CARBON	330	5%	1/4W
R352	1-249-425-11	CARBON	4.7K	5%	1/4W
R353	1-249-411-11	CARBON	330	5%	1/4W
R354	1-249-425-11	CARBON	4.7K	5%	1/4W
R355	1-249-411-11	CARBON	330	5%	1/4W
R356	1-249-425-11	CARBON	4.7K	5%	1/4W
R357	1-249-420-11	CARBON	1.8K	5%	1/4W
R358	1-249-420-11	CARBON	1.8K	5%	1/4W
R359	1-249-417-11	CARBON	1K	5%	1/4W
R360	1-249-437-11	CARBON	47K	5%	1/4W
R361	1-249-429-11	CARBON	10K	5%	1/4W
R362A	1-249-437-11	CARBON	47K	5%	1/4W
R362	1-249-441-11	CARBON	100K	5%	1/4W
R401	1-247-872-11	CARBON	51K	5%	1/4W
R402	1-249-411-11	CARBON	330	5%	1/4W
R403	1-249-405-11	CARBON	100	5%	1/4W
R404	1-247-903-00	CARBON	1M	5%	1/4W
R405	1-249-417-11	CARBON	1K	5%	1/4W
R406	1-249-417-11	CARBON	1K	5%	1/4W
R407	1-249-429-11	CARBON	10K	5%	1/4W
R408	1-249-405-11	CARBON	100	5%	1/4W
R409	1-249-405-11	CARBON	100	5%	1/4W
R410	1-249-419-11	CARBON	1.5K	5%	1/4W
R411	1-249-409-11	CARBON	220	5%	1/4W
R412	1-249-409-11	CARBON	220	5%	1/4W
R413	1-249-425-11	CARBON	4.7K	5%	1/4W
R414	1-249-438-11	CARBON	56K	5%	1/4W
R415	1-249-409-11	CARBON	220	5%	1/4W
R416	1-249-391-11	(GX90ES)...CARBON	6.8	5%	1/4W
R417	1-249-417-11	CARBON	1K	5%	1/4W
R418	1-249-417-11	CARBON	1K	5%	1/4W
R419	1-249-417-11	CARBON	1K	5%	1/4W
R420	1-249-417-11	CARBON	1K	5%	1/4W
R421	1-249-417-11	CARBON	1K	5%	1/4W
R422	1-249-417-11	CARBON	1K	5%	1/4W
R423	1-249-417-11	CARBON	1K	5%	1/4W
R424	1-249-437-11	CARBON	47K	5%	1/4W
R425	1-249-437-11	CARBON	47K	5%	1/4W
R426	1-249-437-11	CARBON	47K	5%	1/4W
R427	1-249-437-11	CARBON	47K	5%	1/4W

Ref.No.	Part No.	Description			
R428	1-249-437-11	CARBON	47K	5%	1/4W
R429	1-249-437-11	CARBON	47K	5%	1/4W
R430	1-249-437-11	CARBON	47K	5%	1/4W
R431	1-249-437-11	CARBON	47K	5%	1/4W
R432	1-249-437-11	CARBON	47K	5%	1/4W
R433	1-249-437-11	CARBON	47K	5%	1/4W
R434	1-249-437-11	CARBON	47K	5%	1/4W
R435	1-249-437-11	CARBON	47K	5%	1/4W
R436	1-249-437-11	CARBON	47K	5%	1/4W
R437	1-249-437-11	CARBON	47K	5%	1/4W
R438	1-249-425-11	CARBON	4.7K	5%	1/4W
R440	1-249-417-11	CARBON	1K	5%	1/4W
R441	1-249-417-11	CARBON	1K	5%	1/4W
R442	1-249-417-11	CARBON	1K	5%	1/4W
R443	1-249-417-11	CARBON	1K	5%	1/4W
R444	△ 1-215-883-11	METAL OXIDE	33	5%	2W F
R445	△ 1-215-883-11	METAL OXIDE	33	5%	2W F
R446	△ 1-216-422-11	METAL OXIDE	18	5%	1W F
R447	1-247-745-11	CARBON	330	5%	1/2W
R449	1-249-417-11	CARBON	1K	5%	1/4W
R450	1-249-441-11	CARBON	100K	5%	1/4W
R451	1-249-417-11	CARBON	1K	5%	1/4W
R452	1-249-405-11	CARBON	100	5%	1/4W
R454	1-249-441-11	CARBON	100K	5%	1/4W
R461	1-247-872-11	CARBON	51K	5%	1/4W
R462	1-249-411-11	CARBON	330	5%	1/4W
R463	1-249-405-11	CARBON	100	5%	1/4W
R464	1-247-903-00	CARBON	1M	5%	1/4W
R465	1-249-417-11	CARBON	1K	5%	1/4W
R466	1-249-417-11	CARBON	1K	5%	1/4W
R467	1-249-429-11	CARBON	10K	5%	1/4W
R468	1-249-405-11	CARBON	100	5%	1/4W
R469	1-249-405-11	CARBON	100	5%	1/4W
R470	1-249-419-11	CARBON	1.5K	5%	1/4W
R472	1-249-409-11	CARBON	220	5%	1/4W
R473	1-249-425-11	CARBON	4.7K	5%	1/4W
R474	1-249-438-11	CARBON	56K	5%	1/4W
R476	1-249-391-11	(GX90ES)...CARBON	6.8	5%	1/4W
R477	1-249-417-11	CARBON	1K	5%	1/4W
R478	1-249-417-11	CARBON	1K	5%	1/4W
R479	1-249-417-11	CARBON	1K	5%	1/4W
R480	1-249-417-11	CARBON	1K	5%	1/4W
R481	1-249-417-11	CARBON	1K	5%	1/4W
R482	1-249-417-11	CARBON	1K	5%	1/4W
R483	1-249-417-11	CARBON	1K	5%	1/4W
R484	1-249-437-11	CARBON	47K	5%	1/4W
R485	1-249-437-11	CARBON	47K	5%	1/4W
R486	1-249-437-11	CARBON	47K	5%	1/4W
R487	1-249-437-11	CARBON	47K	5%	1/4W
R488	1-249-437-11	CARBON	47K	5%	1/4W
R489	1-249-437-11	CARBON	47K	5%	1/4W
R490	1-249-437-11	CARBON	47K	5%	1/4W
R491	1-249-437-11	CARBON	47K	5%	1/4W
R492	1-249-437-11	CARBON	47K	5%	1/4W
R493	1-249-437-11	CARBON	47K	5%	1/4W
R494	1-249-437-11	CARBON	47K	5%	1/4W
R495	1-249-437-11	CARBON	47K	5%	1/4W

Note:
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:
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Ref.No.	Part No.	Description				
R496	1-249-437-11	CARBON	47K	5%	1/4W	
R497	1-249-437-11	CARBON	47K	5%	1/4W	
R501	1-247-903-00	CARBON	1M	5%	1/4W	
R502	1-249-423-11	CARBON	3.3K	5%	1/4W	
R503	1-247-903-00	CARBON	1M	5%	1/4W	
R504	1-247-889-00	CARBON	270K	5%	1/4W	
R505	1-247-840-00	CARBON	2.4K	5%	1/4W	
R506	1-247-889-00	CARBON	270K	5%	1/4W	
R507	1-249-418-11	CARBON	1.2K	5%	1/4W	
R508	1-249-441-11	CARBON	100K	5%	1/4W	
R509	1-249-423-11	CARBON	3.3K	5%	1/4W	
R510	1-249-422-11	CARBON	2.7K	5%	1/4W	
R511	1-247-903-00	(GX90ES)...CARBON	1M	5%	1/4W	
R512	1-249-410-11	CARBON	270	5%	1/4W	
R513	1-247-903-00	(GX90ES)...CARBON	1M	5%	1/4W	
R514	1-247-832-11	CARBON	1.1K	5%	1/4W	
R515	1-249-418-11	CARBON	1.2K	5%	1/4W	
R516	1-249-423-11	CARBON	3.3K	5%	1/4W	
R517	1-247-840-00	CARBON	2.4K	5%	1/4W	
R519	1-249-433-11	CARBON	22K	5%	1/4W	
R551	1-247-903-00	CARBON	1M	5%	1/4W	
R552	1-249-423-11	CARBON	3.3K	5%	1/4W	
R553	1-247-903-00	CARBON	1M	5%	1/4W	
R554	1-247-889-00	CARBON	270K	5%	1/4W	
R555	1-247-840-00	CARBON	2.4K	5%	1/4W	
R556	1-247-889-00	CARBON	270K	5%	1/4W	
R557	1-249-418-11	CARBON	1.2K	5%	1/4W	
R558	1-249-441-11	CARBON	100K	5%	1/4W	
R559	1-249-423-11	CARBON	3.3K	5%	1/4W	
R560	1-249-422-11	CARBON	2.7K	5%	1/4W	
R561	1-247-903-00	(GX90ES)...CARBON	1M	5%	1/4W	
R562	1-249-410-11	CARBON	270	5%	1/4W	
R563	1-247-903-00	(GX90ES)...CARBON	1M	5%	1/4W	
R564	1-247-832-11	CARBON	1.1K	5%	1/4W	
R565	1-249-418-11	CARBON	1.2K	5%	1/4W	
R566	1-249-423-11	CARBON	3.3K	5%	1/4W	
R567	1-247-840-00	CARBON	2.4K	5%	1/4W	
R569	1-249-433-11	CARBON	22K	5%	1/4W	
R601	1-247-804-11	CARBON	75	5%	1/4W	
R602	1-247-804-11	CARBON	75	5%	1/4W	
R603	1-247-804-11	CARBON	75	5%	1/4W	
R604	1-249-403-11	CARBON	68	5%	1/4W	
R605	1-247-818-11	CARBON	300	5%	1/4W	
R606	1-247-818-11	CARBON	300	5%	1/4W	
R607	1-249-409-11	CARBON	220	5%	1/4W	
R608	1-249-405-11	CARBON	100	5%	1/4W	
R609	1-249-403-11	CARBON	68	5%	1/4W	
R610	1-249-405-11	CARBON	100	5%	1/4W	
R611	1-249-403-11	CARBON	68	5%	1/4W	
R612	1-249-405-11	CARBON	100	5%	1/4W	
R613	1-249-417-11	CARBON	1K	5%	1/4W	
R614	1-249-437-11	CARBON	47K	5%	1/4W	
R615	1-249-429-11	CARBON	10K	5%	1/4W	
R616	1-249-409-11	CARBON	220	5%	1/4W	
R617	1-249-393-11	CARBON	10	5%	1/4W	
R618	1-249-429-11	CARBON	10K	5%	1/4W	
R619	1-249-429-11	CARBON	10K	5%	1/4W	

Ref.No.	Part No.	Description				
R620	1-249-429-11	CARBON	10K	5%	1/4W	
R621	1-249-429-11	CARBON	10K	5%	1/4W	
R623	1-249-429-11	CARBON	10K	5%	1/4W	
R701	1-247-804-11	CARBON	75	5%	1/4W	
R702	1-247-804-11	CARBON	75	5%	1/4W	
R704	1-247-804-11	CARBON	75	5%	1/4W	
R705	1-247-804-11	CARBON	75	5%	1/4W	
R709	1-249-405-11	CARBON	100	5%	1/4W	
R710	1-249-405-11	CARBON	100	5%	1/4W	
R711	1-249-409-11	CARBON	220	5%	1/4W	
R712	1-247-818-11	CARBON	300	5%	1/4W	
R714	1-249-403-11	CARBON	68	5%	1/4W	
R715	1-249-403-11	CARBON	68	5%	1/4W	
R717	1-247-818-11	CARBON	300	5%	1/4W	
R718	1-249-409-11	CARBON	220	5%	1/4W	
R719	1-249-405-11	CARBON	100	5%	1/4W	
R720	1-249-405-11	CARBON	100	5%	1/4W	
R723	1-249-403-11	CARBON	68	5%	1/4W	
R724	1-249-403-11	CARBON	68	5%	1/4W	
R803	△1-213-043-11	FUSIBLE	2	5%	1W	F
R804	△1-213-043-11	FUSIBLE	2	5%	1W	F
R806	1-249-437-11	CARBON	47K	5%	1/4W	
R807	1-249-425-11	CARBON	4.7K	5%	1/4W	
R808	1-249-429-11	CARBON	10K	5%	1/4W	
R809	1-202-725-00	(GX90ES)(GX80ES:US)				
R810	1-247-895-00	CARBON ...SOLID	470K	5%	1/2W	
R811	1-249-417-11	CARBON	1K	5%	1/4W	
R812	1-249-426-11	CARBON	5.6K	5%	1/4W	
R813	1-249-426-11	CARBON	5.6K	5%	1/4W	
R814	1-249-417-11	CARBON	1K	5%	1/4W	
R815	1-249-429-11	CARBON	10K	5%	1/4W	
R816	1-249-433-11	CARBON	22K	5%	1/4W	
R817	1-249-429-11	CARBON	10K	5%	1/4W	
R818	1-249-417-11	CARBON	1K	5%	1/4W	
R819	1-249-429-11	CARBON	10K	5%	1/4W	
R821	△1-247-747-11	CARBON	470	5%	1/2W	F
R822	△1-216-433-00	METAL OXIDE	1.2K	5%	1W	F
R1006	1-249-429-11	CARBON	10K	5%	1/4W	
R2000	1-249-426-11	CARBON	5.6K	5%	1/4W	
R2001	1-247-885-00	CARBON	180K	5%	1/4W	
R2003	△1-247-738-11	CARBON	82	5%	1/2W	F
R2004	△1-247-738-11	CARBON	82	5%	1/2W	F
R2005	1-247-747-11	CARBON	470	5%	1/2W	
R2055	1-247-747-11	CARBON	470	5%	1/2W	
R4001	1-249-417-11	CARBON	1K	5%	1/4W	
R4002	1-249-437-11	CARBON	47K	5%	1/4W	
R4003	1-249-437-11	CARBON	47K	5%	1/4W	
R4004	1-247-903-00	CARBON	1M	5%	1/4W	
R4005	1-249-417-11	CARBON	1K	5%	1/4W	
R4051	1-249-417-11	CARBON	1K	5%	1/4W	
R4052	1-249-437-11	CARBON	47K	5%	1/4W	
R4053	1-249-437-11	CARBON	47K	5%	1/4W	
R4054	1-247-903-00	CARBON	1M	5%	1/4W	
RT02	1-238-019-11	RES, ADJ, CARBON	47K			
RT03	1-238-020-11	RES, ADJ, CARBON	100K			
RT04	1-238-020-11	RES, ADJ, CARBON	100K			

Note:
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Note:
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Ref.No.	Part No.	Description
RT05	1-238-021-11	RES, ADJ, CARBON 220K
RT202	1-237-455-11	RES, ADJ, CARBON 500
RT252	1-237-455-11	RES, ADJ, CARBON 500
RV001	1-238-975-11	(GX80ES)...RES, VAR, CARBON 30K/30K
RV001	1-241-135-11	(GX90ES)...RES, VAR, CARBON 30K/30K
RV501	1-238-140-21	RES, VAR, CARBON 20K/20K
RV502	1-238-141-21	RES, VAR, CARBON 20K/20K
RV503	1-238-141-21	RES, VAR, CARBON 20K/20K
RV504	1-238-142-21	RES, VAR, CARBON 20K/20K
RY201	1-515-703-11	RELAY
RY801	1-515-701-11	RELAY
S301	1-554-303-21	SWITCH, KEY BOARD (POWER)
S302	1-554-303-21	SWITCH, KEY BOARD (SHIFT)
S303	1-554-303-21	SWITCH, KEY BOARD (1)
S304	1-554-303-21	SWITCH, KEY BOARD (2)
S305	1-554-303-21	SWITCH, KEY BOARD (3)
S306	1-554-303-21	SWITCH, KEY BOARD (4)
S307	1-554-303-21	SWITCH, KEY BOARD (5)
S308	1-554-303-21	SWITCH, KEY BOARD (6)
S309	1-554-303-21	SWITCH, KEY BOARD (7)
S310	1-554-303-21	SWITCH, KEY BOARD (8)
S311	1-554-303-21	SWITCH, KEY BOARD (9)
S312	1-554-303-21	SWITCH, KEY BOARD (0)
S313	1-554-303-21	SWITCH, KEY BOARD (FM MODE)
S314	1-554-303-21	SWITCH, KEY BOARD (AUTO/MAN)
S315	1-554-303-21	SWITCH, KEY BOARD (FM)
S316	1-554-303-21	SWITCH, KEY BOARD (AM)
S317	1-554-303-21	SWITCH, KEY BOARD (MEMORY)
S318	1-554-303-21	SWITCH, KEY BOARD (TUNE -)
S319	1-554-303-21	SWITCH, KEY BOARD (TUNE +)
S320	1-554-303-21	SWITCH, KEY BOARD (CH -)
S321	1-554-303-21	SWITCH, KEY BOARD (CH +)
S322	1-554-303-21	SWITCH, KEY BOARD (DAT)
S323	1-554-303-21	SWITCH, KEY BOARD (CD)
S324	1-554-303-21	SWITCH, KEY BOARD (TUNER)
S325	1-554-303-21	SWITCH, KEY BOARD (PHONO)
S326	1-554-303-21	SWITCH, KEY BOARD (VIDEO 1)
S327	1-554-303-21	SWITCH, KEY BOARD (VIDEO 2)
S328	1-554-303-21	SWITCH, KEY BOARD (VIDEO 3)
S329	1-554-303-21	SWITCH, KEY BOARD (TAPE)
S330	1-554-303-21	SWITCH, KEY BOARD (DISP)
S340	1-571-112-11	SWITCH, PUSH (1 KEY)(ADAPTOR)
S341	1-571-470-11	SWITCH, PUSH (1 KEY)(SOURCE DIRECT)
S351	1-554-303-21	SWITCH, KEY BOARD (MUTING)
S401	1-554-019-21	(GX90ES)...SWITCH, SLIDE (REMOTE TYPE)(CARTRIDGE)
S402	1-571-465-11	SWITCH, SLIDE (REC OUT SELECTOR)
S501	1-571-500-11	(GX80ES)...SWITCH, PUSH (1 KEY) (LOUDNESS)
S501	1-572-309-11	(GX90ES)...SWITCH, PUSH (3 KEY) (LOUDNESS)

Ref.No.	Part No.	Description
S502	1-572-309-11	(GX90ES)...SWITCH, PUSH (3 KEY) (SUBSONIC)
S503	1-571-500-11	(GX90ES)...SWITCH, PUSH (1 KEY) (TURNOVER)
S504	1-572-312-11	(GX90ES)...SWITCH, PUSH (1 KEY) (TURNOVER)
S551	1-570-897-11	SWITCH, SLIDE (REMOTE)(SPEAKERS)
S801	1-571-309-31	SWITCH (SPEAKER IMPEDANCE)
T01	1-404-713-11	TRANSFORMER, IF
T02	1-404-743-11	COIL, DISCRIMINATOR
T03	1-404-742-11	COIL, DISCRIMINATOR
T801	△1-448-517-21	(GX90ES)(GX80ES:US) TRANSFORMER, POWER
T801	△1-448-523-11	(GX80ES:AEP).....TRANSFORMER, POWER
T901	△1-450-021-11	(GX90ES).....TRANSFORMER, POWER
T901	△1-450-030-11	(GX80ES:US).....TRANSFORMER, POWER
T901	△1-450-151-11	(GX80ES:AEP)...TRANSFORMER, POWER
TB01	1-537-235-11	TERMINAL BOARD (SP)
TM01	*1-533-708-00	(GX80ES:US)....TERMINAL BOARD, PUSH 4P
TM01	*1-537-138-31	(GX80ES:AEP)....TERMINAL BOARD (ANT)
TM01	*1-537-225-11	(GX90ES)...TERMINAL BOARD(ANT (F) TYPE)
TP01	*1-560-060-00	PIN, CONNECTOR 2P
XT01	1-577-126-11	VIBRATOR, CRYSTAL
XT301	1-567-775-11	VIBRATOR, CERAMIC

ACCESSORY & PACKING MATERIAL

1-417-090-00	(GX80ES)...MATCHING TRANSFORMER, ANTENNA
1-417-141-11	(GX90ES)...MATCHING TRANSFORMER, ANTENNA
1-465-419-11	REMOTE COMMANDER (RM-P303)
1-501-224-00	ANTENNA, FEEDER
1-501-374-11	ANTENNA, LOOP
*2-135-414-01	SHEET, PROTECTION
3-703-450-01	(GX80ES/GX90ES:US)...INSTRUCTION
*3-703-710-41	STICKER, SONY SYMBOL (12)
3-751-914-11	(GX80ES:AEP).....MANUAL, INSTRUCTION
3-751-914-21	(GX80ES:US/GX90ES)...MANUAL, INSTRUCTION
4-847-802-00	SCREW
*4-931-663-01	CUSHION
*4-931-664-01	(GX90ES)...INDIVIDUAL CARTON
*4-931-665-01	(GX80ES)...INDIVIDUAL CARTON

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